

SilC EIC 2100 Search Request Form 16861

Today's Date: 10/14/2005	What date would you like to use to limit the search? Priority Date: 0//5/2002 Other:
Name <u>Kuen S. Lu</u> AU <u>2167</u> Examiner # 796 Room # <u>RAN 3B02</u> Phone <u>241</u> Serial #	Format for Search Results (Circle One): PAPER DISK EMAIL Where have you searched so far? USP DWPI EPO JPO ACM IBM TDB Sun IEEE INSPEC SPI Other Gongle Drade
	auest? (Circle One) (YES) NO -3 hours (maximum). The search must be on a very specific topic and in EIC2100 and on the EIC2100 NPL Web Page at Place Couple to by 2 : 00 pm THANK
include the concepts, synonyms, keywords, a	or other specific details defining the desired focus of this search? Please acronyms, definitions, strategies, and anything else that helps to describe ct, background, brief summary, pertinent claims and any citations of
please have the	ip torms: temporal with Proximity
(authorizate adj to	ool) and (file\$1) and (referencts
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cfring ((ring	attached
	3
STIC Searcher Geofficy ST-Leger Phone 23590 Date picked up 10 14 5 Date Completed 10 14 5	



STIC Search Report

STIC Database Tracking Number: 168571

TO: Kuen S Lu

Location: rnd 3b02

Art Unit: 2167

Friday, October 14, 2005

Case Serial Number: 10/047842

From: Geoffrey St. Leger

Location: EIC 2100 Randolph-4B31 Phone: 23450

geoffrey.stleger@uspto.gov

Search Notes

Dear Examiner Lu,

Attached please find the results of your search request for application 10/047842. I searched Dialog's patent files, technical databases and general files.

Please let me know if you have any questions.

Regards,

Geoffrey St. Léger (

4B31/x23540



```
8:Ei Compendex(R) 1970-2005/Oct W1
File
         (c) 2005 Elsevier Eng. Info. Inc.
      35:Dissertation Abs Online 1861-2005/Sep
File
         (c) 2005 ProQuest Info&Learning
      65:Inside Conferences 1993-2005/Oct W2
File
         (c) 2005 BLDSC all rts. reserv.
File
       2:INSPEC 1898-2005/Oct W1
         (c) 2005 Institution of Electrical Engineers
      94:JICST-EPlus 1985-2005/Aug W2
File
         (c) 2005 Japan Science and Tech Corp (JST)
       6:NTIS 1964-2005/Oct W1
File
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2005/Oct W1
         (c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
     34:SciSearch(R) Cited Ref Sci 1990-2005/Oct W2
File
         (c) 2005 Inst for Sci Info
      99: Wilson Appl. Sci & Tech Abs 1983-2005/Sep
File
         (c) 2005 The HW Wilson Co.
File 266:FEDRIP 2005/Jun
         Comp & dist by NTIS, Intl Copyright All Rights Res
      95:TEME-Technology & Management 1989-2005/Sep W1
         (c) 2005 FIZ TECHNIK
Set
        Items
                Description
S1
        64075
                 (TEMPORAL? OR TIME) (5N) (PROXIMITY OR PROXIMAL? OR CLOSE OR
             CLOSENESS OR NEAR OR NEARNESS OR NEARBY OR IMMEDIACY OR DISTA-
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              BUILD??? OR BUILT OR DEVELOP???? OR DESIGN???)
                 (TOOL? ? OR TOOLKIT? ? OR APPLICATION? ? OR PROGRAM? ? OR -
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             ?? OR BUILD??? OR BUILT OR DEVELOP???? OR DESIGN???)
S7
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                S1 (7N) S2
S10
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S11
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S12
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S13
          489
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S14
          258
                S13 AND S4:S5
S15
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                S9 OR S11
                RD (unique items)
S16
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S17
           18 * S16 NOT PY=2003:2005
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File 347: JAPIO Nov 1976-2005/Jun (Updated 051004)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD, UM &UP=200565
         (c) 2005 Thomson Derwent
                Description
Set
S1
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             NCE OR DISTANT)
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       432717 S2 (7N) (AUTHOR??? OR GENERAT???? OR CREAT??? OR PRODUCING OR
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             ?? OR BUILT OR DEVELOP???? OR DESIGN???)
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              BUILD??? OR BUILT OR DEVELOP???? OR DESIGN???)
                (TOOL? ? OR TOOLKIT? ? OR APPLICATION? ? OR PROGRAM? ? OR -
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             SOFTWARE OR CODE) (5N) (AUTHOR??? OR GENERAT???? OR CREAT??? OR
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S9
         2934
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S11
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S12
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S13
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           21
                S11:S13
S14
                S14 AND AC=US/PR AND AY=(1970:2002)/PR
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S16
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                S14 AND AC=US AND AY=(1970:2002)/PR
S17
           11
S18
           18
                S14 AND PY=1970:2002
           18
                S15:S18
S19
                IDPAT (sorted in duplicate/non-duplicate order)
S20
           18
                PN=US 20030135522
S21
           1
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(Item 2 from file: 350)
20/5/2
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
014028400
WPI Acc No: 2001-512614/ 200156
XRPX Acc No: N01-379504
          distance presentation for time sequenced data , involves
  displaying time bar in which color or pattern between two time sequenced
  data items show time difference between them
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No
              Kind
                     Date
                              Applicat No
                                              Kind
                                                      Date
RD 442124
                    20010210 RD 2001442124
                                               Α
                                                    20010120 200156 B
Priority Applications (No Type Date): RD 2001442124 A 20010120
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                       Filing Notes
                     1 G06F-000/00
RD 442124
              Α
Abstract (Basic): RD 442124 A
        NOVELTY - Items of the time sequenced data are displayed in-line
    along with a time bar in which the color or pattern of the time bar
    between two successive data items represent the time difference between
    them.
    USE - For presenting time distance of time sequenced data such as event log data, image data captured by digital camera using the time stamp of each item of time sequenced data that indicates
    the generation time of each datum.
        ADVANTAGE - Offers dark and bright color indication to notify that
    time distance is long or short respectively, hence efficient time
    distance presentation is ensured.
        pp; 1 DwgNo 0/2
Title Terms: TIME; DISTANCE; PRESENT; TIME; SEQUENCE; DATA; DISPLAY; TIME;
BAR; PATTERN; TWO; TIME; SEQUENCE; DATA; ITEM; SHOW; TIME; DIFFER Derwent Class: T01
International Patent Class (Main): G06F-000/00
File Segment: EPI
            (Item 3 from file: 350)
 20/5/3
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
013461773
             **Image available**
WPI Acc No: 2000-633716/ 200061
XRPX Acc No: N00-469735
  Image processor for virtual reality applications, detects distance
  information between each point of time series image, based on linear
  coupling coefficient
Patent Assignee: TOSHIBA KK (TOKE )
Number of Countries: 001 Number of Patents: 002
Patent Family:
Patent No
              Kind
                     Date
                              Applicat No
                                              Kind
                                                      Date
                                                               Week
JP 2000259835 A
                    20000922
                              JP 9965407
                                                   19990311
                                               Α
JP 3630582
               B2 20050316
                              JP 9965407
                                                    19990311
Priority Applications (No Type Date): JP 9965407 A 19990311
Patent Details:
Patent No Kind Lan Pg
                          Main IPC
                                       Filing Notes
                     21 G06T-007/00
JP 2000259835 A
JP 3630582
                     26 G06T-001/00
                                       Previous Publ. patent JP 2000259835
              B2
Abstract (Basic): JP 2000259835 A
```

NOVELTY - The linear coupling coefficient between time series images of target and light source direction, is detected based on surrounding brightness information. The position of each point and distance information between points on the image, is determined based on the coefficient. The surface normal line vector of each point is determined based on photology direction of target.

DETAILED DESCRIPTION - An extraction unit (1) extracts the characteristic point of target object, from received time sequential image. The extracted points are matched mutually to detect change in position of object and its corresponding positional coordinates. An INDEPENDENT CLAIM is also included for image processing method.

USE - For CAD used for industrial component **design**, virtual reality **applications** in game fields, computer graphics, etc.

ADVANTAGE - Satisfies practical accuracy and process velocity standards even when processing object of complicated shape.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of image processor.

Extraction unit (1)

pp; 21 DwgNo 1/12

Title Terms: IMAGE; PROCESSOR; VIRTUAL; APPLY; DETECT; DISTANCE; INFORMATION; POINT; TIME; SERIES; IMAGE; BASED; LINEAR; COUPLE; COEFFICIENT

Derwent Class: S02; T01

International Patent Class (Main): G06T-001/00; G06T-007/00

International Patent Class (Additional): G01B-011/00; G01B-011/26;

G06T-007/60; H04N-013/02

File Segment: EPI

20/5/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012389414 **Image available**
WPI Acc No: 1999-195521/ 199917

XRPX Acc No: N99-143791

Data collection procedure for collection and recording of e.g. transit time, distance, velocity of vehicle - involves using CPU of handheld keypad and digital tachograph main body to read data corresponding to key code based on key operation, from stored delivery indication data so that event data are set and stored in IC memory

Patent Assignee: YAZAKI CORP (YAZA)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 11039530 A 19990212 JP 97198992 A 19970724 199917 B

Priority Applications (No Type Date): JP 97198992 A 19970724 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes JP 11039530 A 11 G07C-005/00

Abstract (Basic): JP 11039530 A

NOVELTY - The CPUs (26,38) of a handheld keypad (2) and a digital tachograph main body (3) individually read predetermined data corresponding to a key code depending on a key operation, from the corresponding stored delivery indication data so that predetermined event data are produced and recorded in a loaded integrated circuit (IC) memory (36). DETAILED DESCRIPTION - A handheld keypad and a digital tachograph main body are connected to each other via a connection line (4). The handheld keypad having a keypad and a display (24) is detachably comprised in the digital tachograph main body which performs the collection recording of the run data and operation data of a vehicle. The operation data are produced by combining the run data during the key operation and event data.

USE - For collection recording of e.g. transit time, distance, velocity of vehicle.

ADVANTAGE - Download data of handheld keypad and digital tachograph main body corresponding to delivery indication data are made in accord. Ensures high-speed connection of handheld keypad to digital tachograph main body. DESCRIPTION OF DRAWING(S) - The figure shows the component block diagram of a data collection apparatus. (2) Handheld keypad; (3) Digital tachograph main body; (4) Connection line; (24) Display; (26,38) CPUs; (36) IC memory.

Dwq.1/13

Title Terms: DATA; COLLECT; PROCEDURE; COLLECT; RECORD; TRANSIT; TIME; DISTANCE; VELOCITY; VEHICLE; CPU; DIGITAL; TACHOGRAPH; MAIN; BODY; READ; DATA; CORRESPOND; KEY; CODE; BASED; KEY; OPERATE; STORAGE; DELIVER; INDICATE; DATA; SO; EVENT; DATA; SET; STORAGE; IC; MEMORY

Derwent Class: S02; T01; T05; X22

International Patent Class (Main): G07C-005/00

International Patent Class (Additional): G07F-007/08

File Segment: EPI

20/5/17 (Item 17 from file: 347) DIALOG(R) File 347: JAPIO (c) 2005 JPO & JAPIO. All rts. reserv.

Image available 06275441 INFORMATION MULTIPLE DISPLAY DEVICE

11-217030 [JP 11217030 A] PUB. NO.: August 10, 1999 (19990810) PUBLISHED:

TAKEGUCHI AKITAKA INVENTOR(s):

APPLICANT(s): YAZAKI CORP

10-021257 [JP 9821257] APPL. NO.:

FILED:

February 02, 1998 (19980202) B60K-035/00; B60R-016/02; G01D-007/00; G08B-021/00 INTL CLASS:

ABSTRACT

PROBLEM TO BE SOLVED: To surely grasp a plurality of alarm information even when they are simultaneously generated by making a control so that indicate a plurality of designs to the alarm information can be multiply indicated in a list using a multiple indicating means when a plurality of alarm information to be rapidly given is simultaneously generated .

SOLUTION: In the normal display mode, the distance from a preceding vehicle, the time, the ODO data, etc., are listed on a display screen of a multiple display part 31. When the warning to indicate that an emergency information is generated in this condition is inputted in an ECU 2 from various sensors 3, the display mode is transferred to the alarm display mode, and if a plurality of warnings are included, a plurality of designs to respectively indicate a plurality of warnings are re-arranged so as to realize the array condition following the predetermined order of priority. In listing the multiple display of a plurality of designs, the multiple display screen of the warning designs in a list is scroll- displayed if the area of the display screen is insufficient.

20/TI/1 (Item 1 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Bistatic radar system for scatterer identification, receives pulse component receipt data from multiple receivers that output pulses indicating reception of pulses from transmitter and generates scatterer location data

20/TI/2 (Item 2 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Time distance presentation for time sequenced data, involves displaying time bar in which color or pattern between two time sequenced data items show time difference between them

20/TI/3 (Item 3 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Image processor for virtual reality applications, detects distance information between each point of time series image, based on linear coupling coefficient

20/TI/4 (Item 4 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Scanning probe for fluorescent dye penetrant inspection, produces flaw map by combining position signals indicating focussed locations and electrical signals based on optical energy from cavity surface

20/TI/5 (Item 5 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Assessing biochemical separations using quality metrics

20/TI/6 (Item 6 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Data collection procedure for collection and recording of e.g. transit time, distance, velocity of vehicle - involves using CPU of handheld keypad and digital tachograph main body to read data corresponding to key code based on key operation, from stored delivery indication data so that event data are set and stored in IC memory

20/TI/7 (Item 7 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Recording error detection method for telephone network - recording network data and identifying disturbances in periodic pattern which occur for longer than predetermined time period

20/TI/8 (Item 8 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

optical distance measuring apparatus in vehicle collision preventing system - has trigger signal generation device contg variable signal delay circuit for delaying drive signal from system control device

20/TI/9 (Item 9 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Automatic focusing unit for camera - uses focus detector and memory to control adjustment of focus on basis of recent and past data calculated at set times

20/TI/10 (Item 10 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Carriage control device for printer - has indicating pulses emitted at certain running distance intervals with running speed measured and time arrival estimated

20/TI/11 (Item 11 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Automatic focussing device for camera - has auxiliary light source operating servo drive via filter and main photographic source

20/TI/12 (Item 12 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Control system for driverless vehicle operation - has memory and microcomputer which processes distance and direction signals to provide vehicle control signals

20/TI/13 (Item 13 from file: 350)
DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Machine tool optical measurement system - enable distance measurement between point on tool and boundary point

20/TI/14 (Item 14 from file: 350)
DIALOG(R) File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Observation member directing appts. with pointer - derives angular information during time intervals to determine distance of target

20/TI/15 (Item 15 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

UNMANNED CARRIER

20/TI/16 (Item 16 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

POSITION DISPLAY

20/TI/17 (Item 17 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

INFORMATION MULTIPLE DISPLAY DEVICE

20/TI/18 (Item 18 from file: 347)
DIALOG(R)File 347:(c) 2005 JPO & JAPIO. All rts. reserv.

LOGIC CIRCUIT DESIGN DEVICE

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(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20051013,UT=20051006
         (c) 2005 WIPO/Univentio
Set
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             NCE OR DISTANT)
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                PAGE? ? OR WEBPAGE? ? OR DATA OR INFORMATION
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S4
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S5
              OR PRODUCTION OR PRODUCES OR PRODUCED OR CONSTRUCT??? OR BUI-
             LD??? OR BUILT OR DEVELOP???? OR DESIGN???)
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S8
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S9
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                S11 (30N) S7
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S18
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                S16 OR S18
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IDPAT (sorted in duplicate/non-duplicate order)

File 348: EUROPEAN PATENTS 1978-2005/Oct W01

S19

S20

56 ⁴

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(c) 2005 European Patent Office. All rts. reserv.
01276947
DYNAMIC MANAGEMENT OF CONTENT SERVED BY AN INFORMATION SERVICE
            VERWALTUNG VON
                                INFORMATIONSINHALTEN,
                                                                      EINEN
    INFORMATIONSDIENST VERBREITET WURDEN
GESTION DYNAMIQUE DE CONTENU DESSERVIE PAR UN SERVICE D'INFORMATION
PATENT ASSIGNEE:
  Sun Microsystems, Inc., (2616592), 4150 Network Circle, Santa Clara,
    California 95054, (US), (Proprietor designated states: all)
INVENTOR:
  LIEBERMAN, Noah, 2931 14th Street, Boulder, CO 80304, (US)
LEGAL REPRESENTATIVE:
  Harris, Ian Richard et al (72231), D. Young & Co., 21 New Fetter Lane,
    London EC4A 1DA, (GB)
                             EP 1216442 A2
PATENT (CC, No, Kind, Date):
                                             020626 (Basic)
                              EP 1216442 B1 030423
                              WO 2001018648 010315
                              EP 2000957645 000822; WO 2000US22981 000822
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 391010 990907
DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;
  IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; FR; GB; IE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-009/44; G06F-009/445
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                     Word Count
      CLAIMS B (English)
                          200317
                                      1417
                          200317
                                      1354
      CLAIMS B
                 (German)
      CLAIMS B
                 (French)
                          200317
                                      1719
                (English) 200317
      SPEC B
                                      6029
Total word count - document A
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Total word count - document B
                                     10519
Total word count - documents A + B
                                     10519
...SPECIFICATION 3) interfaces to applications sets, toolbars, file
  systems, etc.;
     (4) advertising content, banner ads, etc.;
     (5) news content , press release information , articles sorted by
  topic, author , publication, etc.;
     (6) interfaces to communications facilities such as for voice
  messaging; text messaging; audio, visual, or audiovisual broadcast and/or
   point -to- point media content; etc.; and
     (7) real-time or near -real-time data presentations, such as of
  financial, stock price, system status, traffic flow, or manufacturing
  process control data...
              (Item 5 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
00842095
INFORMATION CARRIER, DEVICE FOR READING AND DEVICE FOR PROVIDING THE
    INFORMATION CARRIER AND METHOD OF TRANSMITTING PICTURE INFORMATION
INFORMATIONSTRAGER, LESEVORRICHTUNG UND VORRICHTUNG ZUR HERSTELLUNG DES
    INFORMATIONSTRAGERS UND METHODE ZUR UBERTRAGUNG VON BILDINFORMATION
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SUPPORT D'INFORMATIONS, DISPOSITIF DE LECTURE ET DISPOSITIF DE REALISATION DU SUPPORT D'INFORMATIONS ET PROCEDE DE TRANSMISSION D'INFORMATIONS

20/3,K/3

D'IMAGES
PATENT ASSIGNEE:

(Item 3 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

```
SONY CORPORATION, (214021), 7-35 Kitashinagawa 6-chome Shinagawa-ku,
    Tokyo 141, (JP), (Proprietor designated states: all)
  Koninklijke Philips Electronics N.V., (1489041), Groenewoudseweg 1, 5621
    BA Eindhoven, (NL), (Proprietor designated states: all)
INVENTOR:
  KAWAMURA, Makoto Sony Corporation, 7-35, Kitashinagawa 6-chome
    Shinaqawa-ku, Tokyo 141, (JP)
  FUJINAMI, Yasushi Sony Corporation, 7-35, Kitashinagawa 6-chome
    Shinagawa-ku, Tokyo 141, (JP)
  DE HAAN, Wiebe, Prof. Holstlaan 6, NL-5656 AA Eindhoven, (NL)
LEGAL REPRESENTATIVE:
  Faessen, Louis Marie Hubertus et al (19891), Philips Intellectual
    Property & Standards P.O. Box 220, 5600 AE Eindhoven, (NL)
PATENT (CC, No, Kind, Date): EP 784848 A1 970723 (Basic)
                              EP 784848 B1 031022
                              WO 97006531 970220
APPLICATION (CC, No, Date):
                              EP 96925986 960802; WO 96JP2188 960802
PRIORITY (CC, No, Date): JP 95200122 950804; JP 95200121 950804; EP
    95202215 950816
DESIGNATED STATES: AT; DE; ES; FR; GB; IT
INTERNATIONAL PATENT CLASS: G11B-020/00; H04N-005/913; H04N-007/16;
  G11B-027/10; G11B-027/28; G11B-027/34; G11B-019/02; G11B-020/12;
  H04N-005/926; H04N-009/804; H04N-005/937
NOTE:
  No A-document published by EPO
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS B
                (English)
                          200343
                                      3548
      CLAIMS B
                 (German)
                          200343
                                      3190
      CLAIMS B
                 (French)
                          200343
                                      3862
      SPEC B
                (English) 200343
                                     16202
Total word count - document A
                                         0
Total word count - document B
                                     26802
Total word count - documents A + B
                                     26802
... SPECIFICATION A further embodiment of the information carrier according
```

...SPECIFICATION A further embodiment of the information carrier according to the invention is characterized in that the path information near to an entry point comprises time code information indicative of the playtime from the beginning of the respective version. This is advantageous in that a...

...reverse direction substantially without interruptions.

A further embodiment of the device is characterized in that the path information near to an entry point comprises time code information indicative of the playtime from the beginning of the respective path, and in that the device comprises...the formation of different versions of a program by selectively reproducing different sequences of recorded sections of program information. Each version is produced by following a particular "path" which indicates the sequence of recorded sections that comprises the particular version of

the program. According to the illustrated...

...CLAIMS Information carrier as claimed in one of the

claims 7 to 10, characterized in that the path information near to an entry point comprises time code information indicative of the playtime from the beginning of the respective version.

12. An apparatus for reading an...

...to said addresses.

17. Apparatus as claimed in claim 15 or 16, characterized in that the path information near to an entry point comprises time code information indicative of the playtime from the beginning of the

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(Item 8 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
Method of managing and viewing image data
Verfahren zum Verarbeiten und Anzeigen von Bilddaten
Procede de gestion et visualisation de donnees d'images
PATENT ASSIGNEE:
  Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome Chiyoda-ku,, Tokyo
    101-8010, (JP), (Applicant designated States: all)
INVENTOR:
  Suzuki, Takayuki Hitachi, Ltd Intel.Prop.Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
  Morimoto, Yoshiaki Hitachi, Ltd Intel.Prop.Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
  Nakamoto, Yoichi Hitachi, Ltd Intel. Prop. Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
  Miyamoto, Hiroki Hitachi, Ltd Intel. Prop. Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
  Okasaki, Keitaro Hitachi, Ltd Intel.Prop.Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
  Okamura, Shinichiro Hitachi, Ltd Intel.Prop.Grp, New Marunouchi Bldg 5-1
    Marunouchi 1-chome, Chiyoda-ku Tokyo 100-8220, (JP)
LEGAL REPRESENTATIVE:
  Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538
    Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1580977 A2 050928 (Basic)
APPLICATION (CC, No, Date):
                               EP 2004013536 040608;
PRIORITY (CC, No, Date): JP 200485959 040324
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
 HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK
INTERNATIONAL PATENT CLASS: H04N-001/21
ABSTRACT WORD COUNT: 151
NOTE:
  Figure number on first page: 15
LANGUAGE (Publication, Procedural, Application): English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                       Word Count
                                         821 ′
      CLAIMS A (English)
                            200539
      SPEC A
                           200539
                                        7683
                 (English)
Total word count - document A
Total word count - document B
Total word count - documents A + B
                                        8504
...SPECIFICATION by short range radio transmission a communication between
  the information processing device of the user and another information
 processing device which functions as an access point and is located near the user at the time of creating the data. The information processing device as the access point may be located at various places
  including: public institutions such as commercial facilities, community
  center and library...
                (Item 10 from file: 348)
 20/3,K/10
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.
01840236
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Image processing system, information storage medium and image processing

method

Bildverarbeitungssystem, Informationsspeichermedium und Bildverarbeitungsve Systeme de traitement d'image, support de stockage d'information et methode de traitement d'image PATENT ASSIGNEE: SEIKO EPSON CORPORATION, (730004), 4-1, Nishi-shinjuku 2-chome, Shinjuku-ku, Tokyo 163-0811, (JP), (Applicant designated States: all) **INVENTOR:** Kobayashi, Masanobu c/o Seiko Epson Corporation, 3-5 Owa 3-chome, Suwa-shi Nagano-ken 392-8502, (JP) LEGAL REPRESENTATIVE: Sturt, Clifford Mark (50502), Miller Sturt Kenyon 9 John Street, London WC1N 2ES, (GB) PATENT (CC, No, Kind, Date): EP 1496694 A2 050112 (Basic) APPLICATION (CC, No, Date): EP 2004253761 040623; PRIORITY (CC, No, Date): JP 2003273358 030711 DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK INTERNATIONAL PATENT CLASS: H04N-005/74 ABSTRACT WORD COUNT: 167 NOTE: Figure number on first page: 2 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count 200502 1205 CLAIMS A (English) SPEC A 200502 5289 (English) Total word count - document A 6494 Total word count - document B Total word count - documents A + B 6494 ... SPECIFICATION the maker, when the projector 20 is positioned directly in front of the screen 10. The correction information generating section 120 determines the projection area information within the range of projection between the minimum and maximum distances and the projection distance at each point of time . The correction information generating section 120, then computes inter-coordinate distances at the respective one of the sensed projection distances, each... (Item 12 from file: 348) 20/3, K/12DIALOG(R) File 348: EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv. 01667556 Apparatus and method for controlling the shift of the viewpoint in a virtual space Gerat und Verfahren zur Bestimmung der Blickpunktverschiebung in einem virtuellen Raum Methode et appareil de determination du decalage du point de vue dans un espace virtuel PATENT ASSIGNEE: eIT Co., Ltd, (4470450), Shinjuku-sumitomo Bldg. 32F, 2-6-1 Nishi-shinjuku, Shinjuku-ku, Tokyo 163-0232, (JP), (Applicant designated States: all) CAD Center Corporation, (4349200), 23-2, Sakaamchi, Shinjuku-ku, Tokyo 160-0002, (JP), (Applicant designated States: all) **INVENTOR:** Ogawa, Yasuji, EIT CO., LTD Shinjuku-Sumitomo Bldg. 32 F, Shinjuku-ku, Tokyo 163-0232, (JP) Shimiya, Kouki, CAD Center Corporation 23-2 Sakaamchi, Shinjuku-ku, Tokyo , (JP)

Sakai, Jun, CAD Center Corporation 23-2 Sakaamchi, Shinjuku-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Kenrick, Mark Lloyd (142311), Marks & Clerk, Sussex House, 83-85 Mosley Street, Manchester M2 3LG, (GB)

PATENT (CC, No, Kind, Date): EP 1369822 A2 031210 (Basic)

EP 1369822 A3 040331

APPLICATION (CC, No, Date): EP 2003253456 030602;

PRIORITY (CC, No, Date): JP 2002160761 020531

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06T-015/20; G06T-015/00; G06F-003/033

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 5

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200350 2074
SPEC A (English) 200350 6952
Total word count - document A 9026
Total word count - document B 0
Total word count - documents A + B 9026

...SPECIFICATION basis of the shift information outputted from the information control section.

According to the invention, preferably, the **information** control section **generates** viewpoint shift **information** for shifting the position of the viewpoint to the touch position on the basis of the position of the touch operation by one of the plurality of **pointing** parts.

According to the invention, preferably, the **information** control section receives **time** -series data on the **distance** and the direction from the starting point to the end point of the drag operation by one of the plurality of pointing parts and **generates** viewpoint shift **information** for shifting the viewpoint on the basis of the time-series data on the distance and the...

...data on the distance between the touch positions by two of the plurality of pointing parts, and **generates** scale **information** for enlarging or reducing the virtual plane on the basis of the **time** -series changes of the **distance** between the touch positions by the two **pointing** parts.

According to the invention, preferably, the **information** control section receives time-series data on the position of the central point of the first to nth) touch positions, and **generates** viewpoint shift **information** for shifting the viewpoint on the basis of the time-series changes of the position of the...

...basis of the shift information outputted from the information control section.

According to the invention, preferably, the **information** control section **generates** viewpoint shift **information** for shifting the position of the viewpoint to the touch position, on the basis of the position of the touch operation by one of the plurality of **pointing** parts.

According to the invention, preferably, the **information** control section receives **time** -series data on the **distance** and the direction from the starting point to the end point of the drag operation by one of the plurality of pointing parts, and **generates** viewpoint shift **information** for shifting the viewpoint in the virtual space on the basis of the time-series data on...

...data on the distance between the touch positions by two of the plurality of pointing parts, and **generates** scale **information** for enlarging or reducing the virtual plane on the basis of the **time** -series data on the

distance between the touch positions by the two pointing parts.

According to the invention, preferably, the information control section receives time-series data on the position of the central point of the first to nth) touch positions, and generates viewpoint shift information for shifting the viewpoint on the basis of the time-series changes of the position of the...

...CLAIMS a starting point to an end point of the drag operation by one of the plurality of **pointing** elements and **generates** the viewpoint shift **information** for shifting the viewpoint based on the **time** -series data of the **distance** and the direction from the starting point toward the end point.

5. The virtual-space shift control...

20/3,K/13 (Item 13 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS (c) 2005 European Patent Office. All rts. reserv.

01389181

Information reproducing apparatus

Informationswiedergabegerat

Appareil de reproduction d'information

PATENT ASSIGNEE:

Victor Company of Japan, Ltd., (278645), 3-12 Moriya-cho, Kanagawa-ku, Yokohama 221-0022, (JP), (Applicant designated States: all)

Tonami, Junichiro, 67-1-2-204, Minesawa-cho, Hodogaya-ku, Yokohama-shi, Kanagawa-ken, (JP)

LEGAL REPRESENTATIVE:

Manitz, Finsterwald & Partner Gbr (100618), Postfach 31 02 20, 80102 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1178484 A2 020206 (Basic)

EP 1178484 A3 040825 EP 1178484 A3 040825

APPLICATION (CC, No, Date): EP 2001117877 010723;

PRIORITY (CC, No, Date): JP 2000226775 000727; JP 2000228704 000728

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G11B-020/10

ABSTRACT WORD COUNT: 149

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200206 3528 SPEC A (English) 200206 40743

Total word count - document A 44271

Total word count - document B 0

Total word count - documents A + B 44271

...SPECIFICATION disc 10A. Sample points "X" on the waveform (A) which are given for the PR equalization are temporally distant from the original data points "o" by angular or phase intervals of 180(degree) with respect to the bit clock signal. Values Z of the 0-point information are generated coincidently with sample points "X", respectively. According to the waveform (A), five successive 0-point information values...

20/3,K/14 (Item 14 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

```
01382965
Reproducing apparatus
Wiedergabegerat
Appareil de reproduction
PATENT ASSIGNEE:
  Victor Company of Japan, Ltd., (278645), 3-12 Moriya-cho, Kanagawa-ku,
    Yokohama 221-0022, (JP), (Proprietor designated states: all)
INVENTOR:
  Tonami, Junichiro, 67-1-2-204, Minesawa-cho, Hodogaya-ku, Yokohama-shi,
    Kanagawa-ken, (JP)
LEGAL REPRESENTATIVE:
  Manitz, Finsterwald & Partner Gbr (100618), Postfach 31 02 20, 80102
    Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1174877 A2
                                              020123 (Basic)
                              EP 1174877 A3
                                              020417
                              EP 1174877 B1 040623
APPLICATION (CC, No, Date):
                              EP 2001116126 010703;
PRIORITY (CC, No, Date): JP 2000217114 000718; JP 2000218676 000719
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G11B-020/10
ABSTRACT WORD COUNT: 151
NOTE:
  Figure number on first page: 4
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
      CLAIMS A
                (English)
                           200204
                                      2148
      CLAIMS B
                (English)
                           200426
                                      1863
      CLAIMS B
                 (German)
                           200426
                                      1805
      CLAIMS B
                 (French)
                           200426
                                      1979
                (English)
                           200204
                                     24523
      SPEC A
      SPEC B
                (English)
                           200426
                                      24184
```

...SPECIFICATION disc 15. Sample points "X" on the waveform (A) which are given for the PR equalization are temporally distant from the original data points "(circle)" by angular or phase intervals of 180(degree) with respect to the bit clock signal. Values Z of the 0-point information are generated coincidently with sample points "X", respectively. According to the waveform (A), five successive 0-point information values...

26676 29831

56507

...SPECIFICATION disc 15. Sample points "X" on the waveform (A) which are given for the PR equalization are temporally distant from the original data points "(circle)" by angular or phase intervals of 180 (degree) with respect to the bit clock signal. Values Z of the 0-point information are generated coincidently with sample points "X", respectively. According to the waveform (A), five successive 0-point information values...

20/3,K/15 (Item 15 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

Total word count - document A Total word count - document B

Total word count - documents A + B

01278325

Information processing apparatus and method, and program storage medium

Verfahren und Apparat fur die Informationsverarbeitung, und Speichermedium

fur das Programm

Nathada and method, and program storage medium

Methode et appareil de traitement d'information, et support de stockage

pour le programme PATENT ASSIGNEE: SONY CORPORATION, (214024), 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo, (JP), (Applicant designated States: all) INVENTOR: Watanabe, Ryuichi, Sony Corporation, 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, (JP) Kuwayama, Takashi, Sony Corporation, 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, (JP) LEGAL REPRESENTATIVE: Rupp, Christian, Dipl.Phys. et al (88331), Mitscherlich & Partner Patentund Rechtsanwalte Sonnenstrasse 33, 80331 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1100027 A2 010516 (Basic) EP 1100027 A3 APPLICATION (CC, No, Date): EP 2000124443 001108; PRIORITY (CC, No, Date): JP 99321898 991112; JP 99321899 991112; JP 200011703 000120 DESIGNATED STATES: DE; FR; GB EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: G06F-017/60 ABSTRACT WORD COUNT: 160 NOTE: Figure number on first page: 5 LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS A (English) 200120 1627 7699 SPEC A (English) 200120 Total word count - document A 9326 Total word count - document B Total word count - documents A + B 9326 ... SPECIFICATION from the GPS antenna 106 and performs a code correlation process to decode the received codes. The program 54F also generates indicative of a signal propagation time of each of the pseudo noise codes coming from GPS satellites (i... ...the antenna 106). Based on the decoded data (comprising GPS satellite positions and clock errors) and the generated code propagation times, the navigation program 54F computes the current position of the computer. With the current position thus acquired, the navigation program ...judged to be in effect, then step S13 is reached. In step S13, the CPU 51 transmits information on all obtained stations near the departure point and all acquired stations near the destination, free of time constraints, via the model 75 over the telephone line 76 for output to the search engine for...

20/3,K/16 (Item 16 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS

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01201244

Image measurement method, image measurement apparatus and image measurement program storage medium

Verfahren, Gerat und Programmspeichermedium zur Bildmessung

Methode de mesure d'image, appareil de mesure d'image et support d'enregistrement de programme pour la mesure d'image
PATENT ASSIGNEE:

FUJITSU LIMITED, (211463), 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, (JP), (Applicant designated States: all)

INVENTOR:

Kawakami, Susumu, Fujitsu Limited, 1,1 Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, (JP)

```
Okamoto, Hiroaki, Fujitsu Limited, 1,1 Kamikodanaka 4-chome, Nakahara-ku,
    Kawasaki-shi, Kanagawa 211-8588, (JP)
  Matsuoka, Masahiro, Fujitsu Limited, 1,1 Kamikodanaka 4-chome,
    Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, (JP)
  Hosogi, Shinya, Fujitsu Limited, 1,1 Kamikodanaka 4-chome, Nakahara-ku,
    Kawasaki-shi, Kanagawa 211-8588, (JP)
LEGAL REPRESENTATIVE:
  Fenlon, Christine Lesley et al (61591), Haseltine Lake & Co., Imperial
    House, 15-19 Kingsway, London WC2B 6UD, (GB)
PATENT (CC, No, Kind, Date): EP 1045341 A2 001018
EP 1045341 A3 001025
                                               001018 (Basic)
                               EP 302988 000407;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 99139021 990412; JP 7020000141 000120
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
RELATED DIVISIONAL NUMBER(S) - PN (AN):
     (EP 2001120399)
     (EP 2001120400)
     (EP 2001120401)
INTERNATIONAL PATENT CLASS: G06T-007/20
ABSTRACT WORD COUNT: 164
NOTE:
  Figure number on first page: 1
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                            Update
                                      Word Count
                 (English)
                            200042
                                      67781
      CLAIMS A
                                     136607
      SPEC A
                 (English)
                            200042
Total word count - document A
                                     204388
Total word count - document B
Total word count - documents A + B 204388
...SPECIFICATION accordance with the following equation or an equation
  equivalent to the above equation.
    To achieve the above- mentioned
                                       objects , the present invention
  provides, of image measurement methods, a fifth image measurement method
  comprising :
     a first step...observation point of said two observation points in an
  optical axis direction, and (DELTA)xLR)) denotes a distance between
  said two observation points .
    In the eighteenth image measurement method as mentioned above, it is
  acceptable that the image measurement method...drawing space associated
  with the true optical axis direction relative to said observation point
  on said measuring point is selected in accordance with information as to a number of small circles intersecting at the cross points.
    In this case, it is...
...plurality of measuring points associated with a plurality of small
  circles joining a voting for a maximal point determined on a small
  circle drawing space associated with the true optical axis direction,
  and/or a...
...to said simple ratio include an operation using the measuring position
  pR)) through observation on said measuring point from one observation
  point of said two observation points, and a binocular parallax (sigma),
  which is a positional difference between the...
                (Item 17 from file: 348)
```

01163028 Reproducing apparatus Wiedergabegerat

DIALOG(R) File 348: EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

20/3,K/17

```
Appareil de reproduction
PATENT ASSIGNEE:
  Victor Company of Japan, Ltd., (278645), 3-12 Moriya-cho, Kanagawa-ku,
    Yokohama 221-0022, (JP), (Applicant designated States: all)
INVENTOR:
  Tonami, Junichiro, 67-1-2-204, Minezawa-cho, Hodogaya-ku, Yokohama-shi,
    kanagawa-ken, (JP)
LEGAL REPRESENTATIVE:
TBK-Patent (102382), Bavariaring 4-6, 80336 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 1014363 A2 000628 (Basic
                                                 000628 (Basic)
                                EP 1014363 A3
                                                 010314
                                EP 99125733 991223;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): JP 98366746 981224; JP 99218715 990802; JP
    99291634 991013; JP 99175972 990622; JP 99175973 990622
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G11B-020/10; G11B-020/14
ABSTRACT WORD COUNT: 188
NOTE:
  Figure number on first page: 2
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                             Update
                                       Word Count
                             200026
                                        4564
      CLAIMS A
                (English)
                             200026
                                        27668
      SPEC A
                 (English)
Total word count - document A Total word count - document B
                                        32232
                                            n
Total word count - documents A + B
                                       32232
...SPECIFICATION disc 15. Sample points "X" on the waveform (A) which are
  given for the PR equalization are temporally
                                                     distant from the
  original data points "(circle)" by angular or phase intervals of
  180 (degree) with respect to the bit clock signal. Values Z of the 0-point
  information are generated coincidently with sample points "X", respectively. According to the waveform (A), five successive 0-point
  information values...
 20/3,K/39
                (Item 39 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
01118008
             **Image available**
A COMPUTERIZED METHOD FOR DISCOVERING PATTERNS IN UNKNOWN MULTI-DIMENSIONAL
    DATA
PROCEDE INFORMATISE PERMETTANT DE DECOUVRIR DES MOTIFS DANS DES DONNEES
    MULTIDIMENSIONNELLES INCONNUES
Patent Applicant/Assignee:
  MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, Marunouchi 2-chome, Chiyoda-ku,
    Tokyo 100-8310, JP, JP (Residence), JP (Nationality)
Inventor(s):
  PEKER Kadir A, 6 Wesley Pl. Fl 2, North Arlington, NJ 07031, US,
Legal Representative:
  SOGA Michiharu (et al) (agent), S. Soga & Co., 8th Floor, Kokusai
    Building, 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005, JP,
Patent and Priority Information (Country, Number, Date):
                         WO 200440503 A1 20040513 (WO 0440503)
  Patent:
                         WO 2003JP12783 20031006
                                                    (PCT/WO JP03012783)
  Application:
  Priority Application: US 2002285928 20021101
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  CN JP
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
```

SI SK TR Publication Language: English Filing Language: English Fulltext Word Count: 5696 Fulltext Availability: Claims Claim 1 A computerized method for discovering patterns in unknown multi-dimensional data , comprising: generating a time series of the inulti-diinensional data; constructing a point cross-distance inatrix by self-correlating the time series; locating all minimum cost paths in the point cross-distance matrix at a plurality of time... 20/3,K/40 (Item 40 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. **Image available** 01081849 SYSTEM FOR AUTOMATICALLY MATCHING VIDEO WITH RATINGS INFORMATION SYSTEME PERMETTANT D'APPARIER AUTOMATIQUEMENT UN CONTENU VIDEO AVEC DES INFORMATIONS DE NOTATION Patent Applicant/Assignee: NIELSEN MEDIA RESEARCH INC, 770 Broadway, New York, NY 10003, US, US (Residence), US (Nationality) Inventor(s): RAMASWAMY Arun, 10710 Tavistock Drive, Tampa, FL 33626, US, Legal Representative: ZIMMERMAN Mark C (agent), Grossman & Flight, LLC, 20 North Wacker Drive, Suite 4220, Chicago, IL 60606, US, Patent and Priority Information (Country, Number, Date): Patent: WO 200403691 A2-A3 20040108 (WO 0403691) Application: WO 2003US20296 20030626 (PCT/WO US03020296) Priority Application: US 2002185734 20020701 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 4859 Fulltext Availability: Detailed Description

Detailed Description

... content 36 with the ratings data. The metadata 60 associated with the ratings data 58 may include **program** identification information.

[00301 The automated authoring engine 48 takes the ratings data 58, the ratings metadata 60, as well as the coded descriptor from the video content subsystem 32 and generates a metadata wrapper 62, which may be

XML based. The metadata wrapper 62 associates the ratings data with other video metadata, such as description, **close** caption, etc. to each **temporal point** in the video **content**. In particular, the mQtadata wrapper 62 may include the following variables, used in the matching element discussed...

20/3,K/41 (Item 41 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 01062029 **Image available** A PATIENT MEDICAL PARAMTER TREND INDICATIVE USER INTERFACE DISPLAY SYSTEM AFFICHEUR D'INTERFACE UTILISATEUR INDIQUANT LA TENDANCE DES PARAMETRES MEDICAUX DU PATIENT Patent Applicant/Assignee: SIEMENS MEDICAL SOLUTIONS USA INC, 51 Valley Stream Parkway, Malvern, PA 19355-1405, US, US (Residence), US (Nationality) Inventor(s): SHAFFER Judith A, 18 Quail Run, Orchard Park, NY 14127, US, PENNY Mark, 8 Gardner Street, Salem, MA 01960, US, MONTELEONE Rand J, 5 Lincoln Drive, Acton, MA 01720, US, MANETTA Amy M, 32 Brandon St., North Billerica, MA 01862, US, RUTLEDGE Jolyn, 7 Ashley Drive, Amesbury, MA 01913, US, Legal Representative: BURKE Alexander J (et al) (agent), Siemens Corporation - Intellectual Property Dept., 170 Wood Ave. South, Iselin, NJ 08830, US, Patent and Priority Information (Country, Number, Date): WO 200391838 A2-A3 20031106 (WO 0391838) Patent: WO 2003US11452 20030414 (PCT/WO US03011452) Application: Priority Application: US 2002374908 20020423; US 2002413301 20020925; US 2003411950 20030411 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) CN IN JP NO (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR Publication Language: English Filing Language: English Fulltext Word Count: 5155

Fulltext Availability: Detailed Description

Detailed Description

... of the time interval.

Such a user entered or marked data value is not replaced by a **data** value selected based on **closeness** in **time** to a centre **time** point of the time interval.

In response to user selection of a different acquisition time interval duration...

...parameter data values acquired within the multiple patient parameter acquisition time intervals of the new duration value.

Application 19 in step 212 generates data representing an image showing Flowsheet, trend indicative display of patient parameter data values associated with multiple patient parameter acquisition time intervals and omitting excluded data values. Specifically, application 19 initiates

generation of an image exemplified by the images of Figures 3 In

particular, images of Figures 3-7...

```
(Item 42 from file: 349)
 20/3,K/42
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
01004251
            **Image available**
DATA PREFECTHING IN A COMPUTER SYSTEM
LECTURE ANTICIPEE DE DONNEES DANS UN SYSTEME INFORMATIQUE
Patent Applicant/Assignee:
  TELEFONAKTIEBOLAGET LM ERICSSON, S-126 25 Stockholm, SE, SE (Residence),
    SE (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  JOHANSSON Leif Karl Osten, Wollmar Yxkullsg. 48B 3tr, S-118 50 Stockholm,
    SE, SE (Residence), SE (Nationality), (Designated only for: US)
  REVEMAN Jon Fredrik Helmer, Kulladalsvagen 10, S-185 37 Vaxholm, SE, SE
    (Residence), SE (Nationality), (Designated only for: US)
Legal Representative:
  HEDBERG Ake (et al) (agent), Aros Patent AB, P.O. Box 1544, S-751 45
    Stockholm, SE,
Patent and Priority Information (Country, Number, Date):
                        WO 200334229 A1 20030424 (WO 0334229)
  Patent:
                        WO 2001SE2290 20011019 (PCT/WO SE0102290)
  Application:
  Priority Application: WO 2001SE2290 20011019
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK
  SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 8198
Fulltext Availability:
  Claims
Claim
... accomplished, thus reducing the memory latency and improving the
  processor utilization. If a prefetch is requested too close in time
                      reference, the data may not be available in time
  to the actual data
  to minimize or avoid a processor stall situation. Therefore, it is
  important that the run-time information used in generating the
  prefetch address is available sufficiently in advance of the data
  reference. The invention takes advantage of...
 20/3,K/45
               (Item 45 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00841924
            **Image available**
PROFILE-DRIVEN DATA LAYOUT OPTIMIZATION
OPTIMISATION D'IMPLANTATION DE DONNEES GUIDEE PAR PROFIL
Patent Applicant/Assignee:
  MICROSOFT CORPORATION, One Microsoft Way, Building 4, Redmond, WA
    98052-6399, US, US (Residence), US (Nationality)
Inventor(s):
  KUCH Gerald Dwayne, 213 5th Avenue, Kirkland, WA 98033, US,
```

BECKMAN Brian C, 11202 S.E. 77th Place, Newcastle, WA 98056, US, ZANDER Jason L, 24649 N.E. 22nd Street, Redmond, WA 98053, US, Legal Representative:

MAURER Gregory L (agent), Klarquist, Sparkman, Campbell, Leigh & Whinston, LLP, One World Trade Center, Suite 1600, 121 SW Salmon Street, Portland, OR 97204, US,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200175590 A2-A3 20011011 (WO 0175590)
Application: WO 2001US10352 20010329 (PCT/WO US0110352)

Priority Application: US 2000542525 20000404

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English Filing Language: English Fulltext Word Count: 18756

Fulltext Availability: Detailed Description Claims

Detailed Description

... better because it takes the time domain into account. Generally, the affinity-based technique strives to place data members referenced close in time close in location within the memory system. One embodiment described below performs a dot product

calculation to determine...

...two times, t, and t2' In this way, Table 12 incorporates the time domain into the profile data because memory references near in time appear in the same column.

- 37

Transforming the Profile Data into a Minimum-Cost Spanning Tree In...

Claim

... the data layout of software comprising a set of object class definitions, the method comprising: instrumenting the software to generate profile data indicating how frequently

data members of the object class definitions are referenced in memory; grouping the data members of the object...

...optimization for software comprising a set of objects belonging to object classes, the method comprising: profiling the **software** to **generate** profile **data indicating** how many times each **data** member of each of the set of objects was referenced in memory during the profiling; specifying a...

20/3,K/49 (Item 49 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00502037 **Image available**

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COMPUTED TOMOGRAPHY DATA ACQUISITION SYSTEM
SYSTEME PERFECTIONNE D'ACQUISITION DE DONNEES PERMETTANT DE GENERER DES
    DONNEES DE PROJECTION PRECISES DANS UN TOMODENSITOMETRE
Patent Applicant/Assignee:
  ANALOGIC CORPORATION, Eight Centennial Drive, Centennial Industrial Park,
    Peabody, MA 01960, US, US (Residence), US (Nationality)
Inventor(s):
  DOLAZZA Enrico, 79 Marlborough Street, Boston, MA 02116, US,
  WEEDON Hans J, 1A Daniels Street Court, Salem, MA 01970, US,
  ABRAHAM Douglas Q, 68 Central Street, Topsfield, MA 01983, US,
Legal Representative:
  KUSMER Toby H (et al) (agent), Lappin & Kusmer LLP, 200 State Street,
    Boston, MA 02109, US,
Patent and Priority Information (Country, Number, Date):
                        WO 9933389 A2-A3 19990708
  Patent:
                        WO 98US27207 19981221 (PCT/WO US9827207)
  Application:
  Priority Application: US 971863 19971231
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW
  MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 8151
Fulltext Availability:
  Detailed Description
Detailed Description
... projection at a time Tj+8 (where 8 can be positive or negative).
  DSP filter 238 preferably generates the data points for such a
  projection at the corresponding time Tj+6 (where 6 can be positive or
  negative) by interpolating a neighborhood of temporally proximal
                generated by converter array
        points
  234. More specifically, DSP filter 238 preferably generates a data
  point

m RawDi(Tj + 8) in a projection according to the following Equation (1),
  where the projection includes...
 20/3,K/50
               (Item 50 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
            **Image available**
00440499
SYSTEM FOR CALCULATING OCCASION DATES AND CONVERTING BETWEEN DIFFERENT
    CALENDAR SYSTEMS, AND INTELLIGENT AGENT FOR USING SAME
SYSTEME DE CALCUL DE DATES D'EVENEMENTS ET DE CONVERSION ENTRE DIFFERENTS
    SYSTEMES DE CALENDRIERS, ET AGENT INTELLIGENT PERMETTANT D'UTILISER CE
    SYSTEME
Patent Applicant/Assignee:
  SLOTZNICK Benjamin,
Inventor(s):
  SLOTZNICK Benjamin,
Patent and Priority Information (Country, Number, Date):
                        WO 9830963 Al 19980716
  Patent:
                        WO 98US628 19980113 (PCT/WO US9800628)
  Application:
  Priority Application: US 9735189 19970114; US 97944923 19971006
```

Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 22660 Fulltext Availability: Detailed Description Detailed Description implemented as a method of manufacturing other types of material objects that are not the reproduction of information , at point of sale, or at a distance in time and place. In addition, the intelligent agent may be implemented as a method of reproducing such information when the information (or part of it) originates (or is developed) over time from a user's input, in that the learning database accumulates information from time to... (Item 51 from file: 349) 20/3,K/51 DIALOG(R) File 349:PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. **Image available** INTELLIGENT AGENT FOR EXECUTING DELEGATED TASKS AGENT INTELLIGENT DESTINE A EXECUTER DES TACHES DELEGUEES Patent Applicant/Assignee: SLOTZNICK Benjamin, Inventor(s): SLOTZNICK Benjamin, Patent and Priority Information (Country, Number, Date): WO 9815909 A1 19980416 Patent: Application: WO 97US18307 19971009 (PCT/WO US9718307) Priority Application: US 9627930 19961009; US 9631910 19961122; US 97944923 19971006 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 14530 Fulltext Availability: Detailed Description Detailed Description invention teaches a method of manufacturing other types of material objects that are not the reproduction of information , at point of sale, or at a distance in time and place. In addition, the present invention teaches a method of reproducing such information when the information (or part of it) originates (or is developed) over time from a user's input, in that the learning database accumulates information from time to...

20/3,K/53 (Item 53 from file: 349)

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DIALOG(R) File 349: PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
            **Image available**
UPDATE MECHANISM FOR COMPUTER STORAGE CONTAINER MANAGER
MOYEN DE MISE A JOUR POUR MODULE DE GESTION D'ELEMENTS DE STOCKAGE
    D'ORDINATEURS
Patent Applicant/Assignee:
  APPLE COMPUTER INC,
Inventor(s):
  HARRIS Jared M,
  RUBEN Ira L,
Patent and Priority Information (Country, Number, Date):
                         WO 9519001 A1 19950713
  Application:
                         WO 95US196 19950104
                                              (PCT/WO US9500196)
  Priority Application: US 94177853 19940105
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR
  KZ LK LR LT LU LV MD MG MN MW MX NL NO NZ PL PT RO RU SD SE SI SK TJ TT
  UA UZ VN KE MW SD SZ AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF
  BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 119635
Fulltext Availability:
  Claims
Claim
    actual IDs
  permits the Container Manager to perform reference
  Refnums. In the API, types, properties, and
   objects are referred to using opaque reference numbers
  provided by the Container Manager. The refnums are
  much more convenient to use than IDs because...container; it must be 2t
  1, If this container is a
  copy of a previous container, the generation number
  should be 1 greater than the generation number of the
  previous container,
  "containerFlags" is the flag value that will be
  stored in the container ...
...to already contain a sequence of bytes that the caller
  wants to convert to container format. The application
 uses CMDefineValueDatao to create values for objects in the bytes. All new stuff, including the TOC is
  written at the end of the existing...can't simply be clobbered. They
  must be preserved as the private TOC and global name
  table pointers .
  Thus each CCB has two pairs of pointers0; the
  "normal" TOC and global name table pointers used by
  everyone, and the "private" pair mainly used by
  close- time processing.
  One other pointer is inherited. That is a pointer referred to as the "target container pointer"
  (targetContainer), It is a CCB pointer copied from
  the target. It is always initialized to point to its
  own CCB, Thus if "All...
```

```
File 275: Gale Group Computer DB(TM) 1983-2005/Oct 13
          (c) 2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Oct 14
          (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Oct 13
          (c) 2005 The Gale Group
File
     16:Gale Group PROMT(R) 1990-2005/Oct 13
          (c) 2005 The Gale Group
File 160: Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Oct 14
          (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Oct 14
          (c) 2005 McGraw-Hill Co. Inc
      15:ABI/Inform(R) 1971-2005/Oct 13
          (c) 2005 ProQuest Info&Learning
File 647:CMP Computer Fulltext 1988-2005/Sep W4
          (c) 2005 CMP Media, LLC
File 674: Computer News Fulltext 1989-2005/Oct W2
          (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/Oct 13
          (c) 2005 Dialog
File 369:New Scientist 1994-2005/Jul W1
          (c) 2005 Reed Business Information Ltd.
Set
         Items
                 Description
S1
         95152
                 (TEMPORAL? OR TIME) (5N) (PROXIMITY OR PROXIMAL? OR CLOSE OR
              CLOSENESS OR NEAR OR NEARNESS OR NEARBY OR IMMEDIACY OR DISTA-
              NCE OR DISTANT)
S2
                 FILE? ? OR OBJECT? ? OR DOCUMENT? ? OR CONTENT? ? OR PAGE?
     19239603
              ? OR WEBPAGE? ? OR DATA OR INFORMATION
S3
                 S2(7N)(REFER??? OR REFERENC??? OR POINT???)
        582578
S4
      3059239
                 S2(7N)(AUTHOR??? OR GENERAT???? OR CREAT??? OR PRODUCING OR
               PRODUCTION OR PRODUCES OR PRODUCED OR CONSTRUCT??? OR BUILD?-
              ?? OR BUILT OR DEVELOP???? OR DESIGN???)
S5
       280254
                 (HINT? ? OR CLUE? ? OR SUGGESTION? ? OR TIP? ? OR INDICAT?
              OR MENTION?) (7N) (AUTHOR??? OR GENERAT???? OR CREAT??? OR PROD-
              UCING OR PRODUCTION OR PRODUCES OR PRODUCED OR CONSTRUCT??? OR
               BUILD ??? OR BUILT OR DEVELOP ???? OR DESIGN ???)
                 (TOOL? ? OR TOOLKIT? ? OR APPLICATION? ? OR PROGRAM? ? OR -
S6
              SOFTWARE OR CODE) (5N) (AUTHOR??? OR GENERAT???? OR CREAT??? OR
              PRODUCING OR PRODUCTION OR PRODUCES OR PRODUCED OR CONSTRUCT?-
              ?? OR BUILD??? OR BUILT OR DEVELOP???? OR DESIGN???)
S7
           160
                 S3 (7N) S1
                 S7 (30N) S4:S6
S8
            21
S9
         10182
                 S1(7N)S2
S10
          1575
                 S9 (30N) S4:S6
                 S9 (30N) S4 (30N) S5 (30N) S6
S11
S12
           403
                 S9 (30N) S6 (30N) S4:S5
                 S12 AND HINT? ?
S13
            2
S14
            23
                 S8 OR S11
            15
                 RD (unique items)
```

15/3, K/1(Item 1 from file: 275) DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 85007156 (USE FORMAT 7 OR 9 FOR FULL TEXT) Object capture with ShapeCam. (product spotlight). (Product Announcement) Donelan, Jenny

Computer Graphics World, 25, 4, 8(1)

April, 2002

DOCUMENT TYPE: Product Announcement ISSN: 0271-4159 LANGUAGE:

English RECORD TYPE: Fulltext LINE COUNT: 00030 WORD COUNT: 323

To operate ShapeCam, a user aims the camera at an object (laser points help indicate the proper distance). At the same time the picture is taken, the flash projects a grid onto the object, which provides the information the software needs in order to create a 3D image later on. Users take multiple pictures at various angles in order to create

15/3,K/2 (Item 2 from file: 275) DIALOG(R) File 275: Gale Group Computer DB(TM) (c) 2005 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 16210107 01657771

Real-time compositing comes to the desktop. (Software Review) (HSC Software Inc's Live Picture compositing software) (Evaluation)

Grotta, Sally Wiener; Grotta, Daniel Newmedia, v4, n10, p85(3)

Oct, 1994

DOCUMENT TYPE: Evaluation ISSN: 1060-7188 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

... ABSTRACT: at screen resolution. Display rate is greatly increased, since the program will only process the amount of data that can be viewed at any point. The FITS technology provides for near real-time editing. As the IVUE file is edited, the software records the design mathematically in the FITS file. Images must first be converted to the IVUE format, however. The software comes with a wide selection...

(Item 1 from file: 621) 15/3.K/3DIALOG(R) File 621: Gale Group New Prod. Annou. (R) (c) 2005 The Gale Group. All rts. reserv.

04259510 Supplier Number: 132910383 (USE FORMAT 7 FOR FULLTEXT) Zero Down Mortgage Offers Only 100 Percent Financing On Purchases; New National Wholesaler Concentrates on Niche Market.

Business Wire, pNA

June 1, 2005

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 498

Zero Down's U-CLOSE automated loan management system delivers instant quotes, automated loan underwriting and real time loan status. U-CLOSE enables Zero Down to create images of files from the point of origination, which streamlines the entire process and increases efficiency so that loans can be closed more...

15/3,K/4 (Item 2 from file: 621) DIALOG(R) File 621: Gale Group New Prod. Annou. (R) (c) 2005 The Gale Group. All rts. reserv.

04045572 Supplier Number: 131664815 (USE FORMAT 7 FOR FULLTEXT)
International Truck and Engine Accelerates Corporate Performance With
Ascential Software Enterprise Data Integration Solution; Ascential
Software Helps World-Class Manufacturer Give Managers Near-Zero-Latency
Access to More Than 100 Key Business Indicators.

PR Newswire, pNA

August 25, 2003 Language: English

glish Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1292

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...improve its competitive position and market responsiveness amid rapidly changing business conditions. Using Ascential Software's enterprise data integration software, International created and deployed a Key Business Indicator (KBI) portal that for the first time provides managers with near -zero-latency, consolidated business information on company performance. The KBI portal provides information about order status, budgets, suppliers, employees, dealers and more...

15/3,K/5 (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

03021923 Supplier Number: 79330464 (USE FORMAT 7 FOR FULLTEXT) LSI Logic Storage Systems Announces SANtricity 8.0 With Snapshot. PR Newswire, pNA

Oct 22, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 706

... for users whose data availability cannot be disrupted by routine management functions such as system backup and data copying. This optional feature creates near instantaneous, point -in- time images of selected volumes. Snapshot images can also accelerate the performance of other data intense activities such...

15/3,K/6 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

03897924 Supplier Number: 50063970 (USE FORMAT 7 FOR FULLTEXT)
A CLEANER ENVIRONMENT THROUGH WIRELESS DATA?

Wireless Data News, v6, n8, pN/A

April 15, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newsletter; Trade

Word Count: 555

... a map of coastal water quality will be provided to the end-user.
...Availability Of Real Time Data A Key

EOS will develop specific surface calibration buoys to help meet the needs of gaining near real-time data on the surface conditions at any given point in time. Surface data will include the measurements of optical properties of the water, temperature and current. The buoys then will...

15/3,K/7 (Item 1 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

11721751 Supplier Number: 125567196 (USE FORMAT 7 FOR FULLTEXT)

Integrating LIMS with the enterprise: for process optimization and
effective resource management.(Laboratory information management systems)

Thurston, Colin G.

Pharmaceutical Technology, v28, n11, pS28(3)

Nov, 2004

Language: English Record Type: Fulltext Document Type: Magazine/Journal; Refereed; Trade

Word Count: 2290

... Central to PAT is placing analytical measurement systems close to or into the manufacturing processes at designated points. Large volumes of important information about product quality are generated in near real-time. These data require rapid interpretation and reporting if they, are to be useful for timely monitoring and control of...

15/3,K/8 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

02496439 Supplier Number: 43298700 (USE FORMAT 7 FOR FULLTEXT) Intelligent sensing put on a chip

Electronic World News, p6

Sept 14, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 366

... in embedded applications.

At around the same time, Neural Computer Sciences (NCS), based in Southampton, England, had **developed** its Neural-Desk neural-network **software**, which is written in the C language and can be embedded within applications to automatically compare **data**.

applications to automatically compare data.

Comparison of new data with the reference matrix is done in near-real-time, as data entry for the neural software is suited to the fixed-size, tabular nature of the data produced by TESPAR.

Tests on the combined system have been completely successful. DDL has already licensed the technology...

15/3,K/9 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04869439 SUPPLIER NUMBER: 09103848 (USE FORMAT 7 OR 9 FOR FULL TEXT) New system analyzes pumping well performance.

McCoy, J.N.; Podio, A.L.

World Oil, v211, n5, p71(6)

Nov, 1990

ISSN: 0043-8790 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 3776 LINE COUNT: 00308

... a minimum of effort.
AUTOMATIC ACOUSTIC SURVEY
MEASUREMENTS

For fully automatic operation such as when undertaking pressure buildup measurements, the operator programs the computer to obtain data points. Each point consists of the time, distance to the liquid level and casing pressure measurement. Data points can be obtained on a shots-per...

(Item 1 from file: 15) 15/3,K/10 DIALOG(R) File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

02517364 245859311

The who, what and why of knowledge mapping

Wexler, Mark N

Journal of Knowledge Management v5n3 PP: 249-263 2001

ISSN: 1367-3270 JRNL CODE: JOKM WORD COUNT: 9057

...TEXT: lost when spotting the "You are here", so, too, one can use this locational map to estimate distance, gauge the time it might take to move between two points or, with the information in the map, create a plausible excuse explaining one's tardiness to others familiar with the map.

The problem envisioned by ...

(Item 2 from file: 15) 15/3,K/11

DIALOG(R) File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

02156618 70232987

DTV marketplace

Anonymous

Broadcast Engineering v43n3 PP: 120-230 Mar 2001

ISSN: 0007-1994 JRNL CODE: BRG

WORD COUNT: 13061

... TEXT: processing; allows user to reliably deliver video of definable quality; uses digital watermarking technology to embed audio time reference signals into video programming near the point of audio/video creation , so lip-sync error can later be detected and corrected by analyzing the watermark later in the ...

(Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

01203152 98-52547

Variation in success of implementation of a decision support/finite scheduling system

Schmahl, Karen E

Production & Inventory Management Journal v37n1 PP: 28-35 First Quarter

ISSN: 0897-8336 JRNL CODE: PIM

WORD COUNT: 3512

... TEXT: the integration into one easily accessible platform. The scheduling system, FACTOR [2], then uses the most current data to generate detailed operating schedules for the shop floor. A team was formed to facilitate final development and implementation...

...frame by a cross-functional team of systems and shop personnel working under the direction of a program manager. Two former production control managers, four systems analysts, and the database administrator formed the nucleus of the development team. The...insight into requirements for success. While overall measures of increased inventory turns, reduced delinquent deliveries, and enhanced production control productivity indicate success of the implementation, the benefits of the system were not consistent across the shop. Variation of ...

...unit with high yields and short setups. Other positive influences in the area were the on-line, near real-time visibility-of customer requirements and high overall data integrity. The production control support focused efforts towards management measurements relative to timeliness and use of resources.

The shop floor...

15/3,K/13 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00868307 95-17699
On-line rheology enhances quality, keeps costs down
Callahan, R F; Rohn, C; Shekhtmeyster, J
Modern Plastics v71n5 PP: 96-98 May 1994
ISSN: 0026-8275 JRNL CODE: MPT

...ABSTRACT: that they provide faster feedback than do manual systems. On-line process rheometers provide continuous measurements in **near** -real-time, generate more data points per hour, and permit timely corrections of process variations. Moreover, cost savings are most evident in the...

15/3,K/14 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00589793 CMP ACCESSION NUMBER: EWN19910304S2691
HP offers GSM tester
ELECTRONIC WORLD NEWS, 1991, n 035, 29
PUBLICATION DATE: 910304
JOURNAL CODE: EWN LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: Products

... modulation. They also fully characterize the TX amplitude envelope at the top 30 dB and -70 dB **point**. An accurate **data** recovery is provided by **near** real- **time** (1 timeslot/frame) coherent **data** demodulation output.

The RF generators programmable output level can be used for sensitivity and input level range measurements, while pulse modulation simulates...

15/3,K/15 (Item 2 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00509121 CMP ACCESSION NUMBER: EWN19920914S1987
NEURAL NETWORKS COMBINED WITH SIGNAL PROCESSING - Intelligent sensing put
on a chip

SIMON LOE

ELECTRONIC WORLD NEWS, 1992, n 066, 6

PUBLICATION DATE: 920914

JOURNAL CODE: EWN LANGUAGE: English

RECORD TYPE: Fulltext SECTION HEADING: news

WORD COUNT: 375

WORD COUNT: 267

in embedded applications.

At around the same time, Neural Computer Sciences (NCS), based in Southampton, England, had **developed** its NeuralDesk neural-network **software**, which is written in the C language and can be embedded within

applications to automatically compare data .

Comparison of new data with the reference matrix is done in near - real- time , as data entry for the neural software is suited to the fixed-size, tabular nature of the data produced by TESPAR.

Tests on the combined system have been completely successful. DDL

has already licensed the technology...

In re: Doyle et al. Serial No.: 10/047,842 Filed: January 15, 2002

Page 2

New as 7/25/05
IEM
after RCE/Non-Final

In the Claims:

1-3. (Canceled).

- 4. (Currently amended) The method according to Claim 3 Claim 6, wherein the selected file is a web page.
- 5. (Currently amended) The method according to Claim 4, wherein the one or more files that are likely to be referenced within a temporal proximity of reference to the selected file comprise at least one of (1) one or more embedded objects of the web page and (2) one or more other web pages which are hyperlinked to the web page.
- 6. (Currently amended) A method of storing content in a computing network, The same of the comprising:

generating by a content authoring tool a-plurality of-files and hints that specify one or more of the files that are likely to be referenced within a temporal proximity of reference to a selected other one of the files;

receiving at a storage system the plurality of files and hints from the content authoring tool; hints that comprise an indication of anticipated relationships among files; and

using the received hints to allocate storage within the storage system for the fileswherein the hints are created by a content authoring tool, and wherein the hints specify one or more files that are likely to be referenced within a temporal proximity of a reference to a selected one of the files.

7. (Original) The method according to Claim 6, wherein the selected file is a text document.

In re: Doyle et al.

Serial No.: 10/047,842 Filed: January 15, 2002

Page 3

- 8. (Currently amended) The method according to Claim 7, wherein the one or more files that are likely to be referenced within a temporal proximity of reference to the selected file comprise one or more objects which are embedded within or referenced by the text document.
- 9. (Currently amended) The method according to Claim 3 Claim 6, wherein the hints further specify weights which describe a degree of dependency-for the relationships that the one or more files will be referenced within a temporal proximity of reference to the selected file.
 - 10. (Canceled).
- 11. (Currently amended) The method according to Claim 6, wherein the hints are encoded in a markup language notation.
- 12. (Original) The method according to Claim 11, wherein the markup language notation is Extensible Markup Language ("XML") notation.
- 13. (Currently amended) The method according to Claim 1 Claim 6, further comprising:

receiving a request for one of the files <u>at the storage system</u>; retrieving the requested file from the allocated storage within the storage system; and returning the retrieved file <u>responsive to the request</u>.

14. (Currently amended) The method according to Claim 1 Claim 6, further comprising:

using the received hints to create dependency information which is stored by a receiver of the hints the storage system in temporary or permanent storage;

receiving a request for one of the files at the storage system; and

In re: Doyle et al.

Serial No.: 10/047,842 Filed: January 15, 2002

Page 4

determining a read request strategy for the requested file by accessing the stored dependency information.

- 15. (Original) The method according to Claim 14, wherein the read request strategy comprises determining selected ones of the files which should be pre-fetched along with a read of the requested file.
- 16. (Currently amended) The method according to Claim 15, wherein determining selected ones of the files which should be pre-fetched further comprises comparing a dependency weight of the files to a pre-fetch threshold.
- 17. (Original) The method according to Claim 16, wherein the pre-fetch threshold is used to tune the pre-fetch operation.
 - 18. (Previously Presented) The method according to Claim 15, further comprising: retrieving the requested file from the allocated storage;

retrieving the selected ones of the files which should be pre-fetched from the allocated storage;

returning the retrieved requested file <u>responsive to the request</u>; and caching the <u>retrieved selected ones</u> the <u>pre-fetched files</u>.

19. (Previously Presented) The method according to Claim 18, further comprising caching the retrieved requested file.

20-21. (Canceled).

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(file\$1 with referenc\$4) same pre\$1fetch\$4 same (stor\$5 with proxi\$6) and @ad < "20020115" and (not 'IBM'.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:37
L2	0	(file\$1 with referenc\$4) same pre\$1fetch\$4 same (stor\$5 with proxi\$6) and @ad < "20020115" and (not 'International'.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:37
L3	,o	(file\$1 with referenc\$4) same pre\$1fetch\$4 same (stor\$5 with proxi\$6) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:37
L4	1	(file\$1 with referenc\$4) same pre\$1fetch\$4 and (stor\$5 with proxi\$6) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 09:43
L5	13	(file\$1 with referenc\$4) and pre\$1fetch\$4 and (stor\$5 with proxi\$6) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:39
L6	12	(file\$1 with referenc\$4) and pre\$1fetch\$4 and (stor\$5 with proxi\$6) and @ad < "20020115" and (not 'International'.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:39
L7	0	(content\$1 with (author\$5 adj tool)) same (temporal with proxi\$6) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 09:45
L8	0	(author\$5 adjitool) same (temporal with proxi\$6) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 09:45
S1	0	("relationshipsamongfiles"or"relati onshipsamongpages").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:18

S2	26	"relationships among files" or "relationships among pages"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 10:45
S3	138	relationships adj ("among" or "between") adj (pages or files)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 11:11
S4	94	S3 and @ad<="20020114"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 10:47
S5	58	S3 and @ad<="20020114" and stor\$4 and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 10:48
S6	58	S3 and @ad<="20020114" and stor\$4 and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 10:48
S8	0	(relationships adj ("among" or "between") adj (pages or files)) and (allocat\$4 adj (storage or space or disk or memory)) and @ad<="01142002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 11:15
S9	0	(relationships adj ("among" or "between") adj (pages or files)) and ((allocat\$4 or reserv\$4) adj (storage or space or disk or memory)) and @ad<="01142002"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 11:51
S10	2	"20030135522"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 15:34
S11	1238	((efficien\$4 or optimiz\$) same file same allocat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 15:37
S12	74	((efficien\$4 or optimiz\$) same file same allocat\$4) same (relationships or pointers or links)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 15:38

S13	39	(((efficien\$4 or optimiz\$) same file same allocat\$4) same (relationships or pointers or links)) and @ad<"20010115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/06 15:39
S14	0	"memory management" same anti\$1pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:19
S15	139	"memory management" same pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:19
S16	139	"memory management" same pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:23
S17	0	detect\$4 adj "memory management" same pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:24
S18	14	detect\$4 same "memory management" same pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/07 16:29
S19	4	anti-pattern	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2004/12/07 16:28
S20	9851	program\$1 near2 edit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 11:14
S21	3008	program\$1 adj edit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 11:15
S22	4	program\$1 adj edit\$3 same number same group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 11:16

S23	43	program\$1 adj edit\$3 same software same develop\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	OFF	2004/12/08 11:49
S24	9	kuen.xa. and lu.xa.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 11:49
S25	531	"control structure" near2 system	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 18:10
S26	0.	"control structure" near2 system same logs	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 18:08
S27	0	"control structure" near2 system same access same clients same computer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 18:10
S28	0	"control structure" near2 system same clients same computer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 18:11
S29	183	"control structure" near2 system same computer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/08 18:11
S30	0	"control structure" near2 system same computer same client	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR.	OFF	2004/12/08 18:11
S31	443	file\$1 same referenc\$4 same temporal and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:31
S32	0	file\$1 same referenc\$4 same temporal same anticipa\$6 and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:30

S33	1	file\$1 same referenc\$4 same temporal same expected and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:30
S34	175	file\$1 same referenc\$4 same temporal and relationship and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:32
S35	0	files same referenc\$4 same temporal same relationship and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:31
S36	9	file\$1 same referenc\$4 same temporal same relationship and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:37
S37	. 443	file\$1 same referenc\$4 same temporal and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:34
S38	1	file\$1 same referenc\$4 same temporal same (hint or anticipat\$4 or expect\$4) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 16:38
S39	18	(relationships adj ("among" or "between") adj (pages or files)) and (allocat\$4 adj (storage or space or disk or memory))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/14 13:25
S40	621975	file\$1 same referenc\$4 samepre\$1fetch\$4 and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:35
S41	464	file\$1 same referenc\$4 same pre\$1fetch\$4 and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF .	2005/10/12 18:38
S42	109	(file\$1 with referenc\$4) same pre\$1fetch\$4 and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:38

S43	37	(file\$1 with referenc\$4 with pre\$1fetch\$4) and @ad < "20020115"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:42
S44	0	(file\$1 with referenc\$4 with pre\$1fetch\$4) and @ad < "20020115" and 'IBM'.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:43
S45	37	(file\$1 with referenc\$4 with pre\$1fetch\$4) and @ad < "20020115" and (not 'IBM'.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/13 08:36
S46	30	(file\$1 with referenc\$4 with pre\$1fetch\$4) and @ad < "20020115" and (not 'International'.as.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/12 18:44

```
(Item 3 from file: 8)
17/5/3
DIALOG(R) File 8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.
           E.I. Monthly No: EI8111095201
                                           E.I. Yearly No: EI81090065
  Title: ADDRESSING THE CRUSH OF SAMPLING.
  Author: Olstad, W. B.; Holcomb, L. B.; Rubin, B.
  Corporate Source: NASA, Headquarters, Washington, DC
Source: AIAA Pap AIAA Int Meet & Tech Disp Global Technol 2000, Baltimore, Md, May 6-8 1980. Publ by AIAA, New York, NY, 1980 Pap 80-0880,
  Publication Year: 1980
  CODEN: AAPRAQ ISSN: 0146-3705
  Language: ENGLISH
  Journal Announcement: 8111
  Abstract: In the year 2000 and beyond, the authors
                                                           indicate that
NASA's application and science missions will require sensors of improved
performance and data systems that provide near -real time data
availability and cost-effective analysis and distribution of information to
the user. A solution to this problem may be the development of high-speed
 data processing capability, compatible with improved sensors, to reduce
data to information onboard spacecraft. 2 refs.
  Descriptors: *SPACECRAFT--*Instruments; DATA PROCESSING--Data Acquisition
  Classification Codes:
      (Spacecraft); 723
                          (Computer Software)
      (AEROSPACE ENGINEERING); 72 (COMPUTERS & DATA PROCESSING)
            (Item 2 from file: 2)
 17/5/7
DIALOG(R) File 2: INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.
           INSPEC Abstract Number: B2000-10-6210L-040, C2000-10-6150N-014
07690428
 Title: Prefetching hyperlinks
  Author(s): Duchamp, D.
                      2nd USENIX Symposium on Internet Technologies and
  Conference Title:
          p.127-38
Systems
  Publisher: USENIX Assoc, Berkeley, CA, USA
  Publication Date: 1999 Country of Publication: USA
  Material Identity Number: XX-1999-03068
  Conference Title: Proceedings of USENIX'99: 2nd Symposium on Internet
Technologies and Systems
  Conference Sponsor: USENIX
  Conference Date: 11-14 Oct. 1999
                                       Conference Location: Boulder, CO, USA
  Language: English
                      Document Type: Conference Paper (PA)
  Treatment: Practical (P)
  Abstract: The paper develops a method for prefetching Web pages into
the client cache. Clients send reference
                                                information to Web servers,
which aggregate the reference
                                      information in near -real- time and
then disperse the aggregated information to all clients, piggybacked on GET
responses. The information indicates how often hyperlink URLs embedded in pages have been previously accessed relative to the embedding page. Based
on knowledge about which hyperlinks are generally popular, clients initiate
prefetching of the hyperlinks and their embedded images according to any
algorithm they prefer. Both client and server may cap the prefetching mechanism's space overhead and waste of network resources due to
speculation. The result of these differences is improved prefetching: lower
client latency (by 52.3%) and less wasted network bandwidth (24.0%). (28
 Refs)
  Subfile: B C
  Descriptors: client-server systems; hypermedia; information resources;
information retrieval; Internet; real-time systems
  Identifiers: hyperlink prefetching; Web page prefetching; client cache;
reference information; Web servers; near-real-time; aggregated information;
GET responses; hyperlink URLs; embedding page; prefetching; embedded images
```

; prefetching mechanism; space overhead; network resources; client latency; network bandwidth Class Codes: B6210L (Computer communications); C6150N (Distributed systems software); C6130D (Document processing techniques); C6130M (Multimedia); C7210N (Information networks); C7250R (Information retrieval techniques); C5620W (Other computer networks) Copyright 2000, IEE 17/5/8 (Item 3 from file: 2) DIALOG(R) File 2:INSPEC (c) 2005 Institution of Electrical Engineers. All rts. reserv. INSPEC Abstract Number: C2000-01-6115-003 Title: RTST++: methodology and a CASE tool for the development of information systems and software for real-time systems Author(s): Terekhov, A.N.; Romanovskii, K.Yu.; Koznov, D.V.; Dolgov, P.S. ; Ivanov, A.N. Author Affiliation: St. Petersburg State Univ., Russia Journal: Programmirovanie vol.25, no.5 Publisher: MAIK Nauka/Interperiodica Publishing, Publication Date: Sept.-Oct. 1999 Country of Publication: Russia CODEN: PROGD3 ISSN: 0132-3474 Material Identity Number: F179-1999-005 Translated in: Programming and Computer Software vol.25, no.5 276-81 Publication Date: Sept.-Oct. 1999 Country of Publication: Russia ISSN: 0361-7688 CODEN: PCSODA SICI of Translation: 0361-7688(199909/10)25:5L.276:RMCT;1-A U.S. Copyright Clearance Center Code: 0361-7688/99/2505-0276\$22.00 Language: English Document Type: Journal Paper (JP) Treatment: Practical (P) Abstract: Recently, two large scale branches of software development CASE tools are efficiently used-information systems and real control systems-are observed close to. In large information where CASE systems, a software response rate problem arises when servicing a large number of clients. As a rule, real time control systems not only control specific equipment, but also work with a database. The RTST++ object oriented methodology is presented, which is created on the basis of UML, SDL, and ROOM, with certain elements of the structured approach (basically, for the convenience of relational database development) and reflects the tendencies mentioned above. Along with this, a CASE tool implementing the RTST++ methodology is presented. (20 Refs) Subfile: C Descriptors: computer aided software engineering; control system CAD; object-oriented programming; real-time systems; relational databases Identifiers: CASE tool; information systems development; software development; real time control systems; large information systems; software response rate problem; RTST++ object oriented methodology; UML; SDL; ROOM; structured approach; relational database development Class Codes: C6115 (Programming support); C6110J (Object-oriented programming); C6110B (Software engineering techniques); C7420D (Control system design and analysis); C6160D (Relational databases) Copyright 1999, IEE (Item 5 from file: 2) 17/5/10 DIALOG(R)File 2:INSPEC (c) 2005 Institution of Electrical Engineers. All rts. reserv. INSPEC Abstract Number: B9803-0120-062, C9803-7140-153 Title: The Nightingale Tracker/sup TM/: information technology for community nursing education

Author(s): Elfrink, V.L.; Martin, K.S.; Davis, L.S.

Author Affiliation: Dept. of Res. & Dev., FITNE Inc., Athens, OH, USA

Conference Title: Nursing Informatics. The Impact of Nursing Knowledge on Health Care Informatics p.364-8

Editor(s): Gerdin, U.; Tallberg, M.; Wainwright, P.

Publisher: IOS Press, Amsterdam, Netherlands

Publication Date: 1997 Country of Publication: Netherlands xxv+630

Material Identity Number: XX97-03223

Conference Title: Nursing Informatics. The Impact of Nursing Knowledge on Health Care Informatics

Conference Date: 1997 Conference Location: Sweden

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); General, Review (G)

Abstract: The international health care delivery system is evolving to include an increased emphasis on community care and automated clinical information and communication systems. These trends are dramatically affecting nursing education in the USA as faculty staff consider the strategies needed to communicate with their students at multiple clinical sites, and to educate students to fulfil their changing practice roles. In response to these changes, FITNE Incorporated is using triangulated research methods to **develop** an **information** technology system for use in community nursing education. Named the Nightingale Tracker, this system will: (1) facilitate real- time voice and data distance communication between students at the point of care and their instructors; and (2) electronically process clinical data related to community nursing education visits. The Nightingale Tracker was pilot-tested in 1996; findings will be used to plan a national beta test. Project completion is scheduled for late 1997. (9 Refs)

Subfile: B C

Descriptors: biomedical education; data communication; health care; information technology; medical information systems; real-time systems; voice communication

Identifiers: Nightingale Tracker; information technology; community nursing education; international health care delivery system; community care; automated clinical information systems; USA; FITNE Incorporated; triangulated research methods; real-time communication; voice communication ; data communication; clinical data processing Class Codes: B0120 (Education and training); C7140 (Medical

administration)

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17/5/12 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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INSPEC Abstract Number: C89007081

Title: A model of parallel graphical processing

Author(s): Paoluzzi, A.

Author Affiliation: Dipartimento di Inf. e Sistemistica, Roma Univ., Italy

vol.18, no.3 Journal: Rivista di Informatica p.341-52

Publication Date: July-Sept. 1988 Country of Publication: Italy

CODEN: RIINDL ISSN: 0390-668X

Document Type: Journal Paper (JP) Language: Italian

Treatment: Practical (P); Theoretical (T)

Abstract: In designing graphical workstations for high-level performance presentation of graphical models, the main goal is nowadays to perform some near real- time traversal and rendering of data . This paper presents a reference model of parallel processing for graphics, taking into account the main aspects of colour rendering of solid hierarchical shapes, i.e. traversal of structures, hidden surfaces removal, shadow identification and light models. In particular, four abstract machines are proposed, designed respectively for data structure traversing, depth ordering, shape merging and screen processing. Such abstract machines, internally parallel, may be combined in various ways to define different physical architectures

for graphics. (15 Refs)



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indexed by # Inspec In re: Doyle et al.

Serial No.: 10/047,842 Filed: January 15, 2002

Page 2

old

In the Claims:

1. (Previously Presented) A method of storing content in a computing network, comprising:

receiving hints that comprise an indication of anticipated relationships among files; and

using the received hints to allocate storage for the files.

- 2. (Original) The method according to Claim 1, wherein the hints are created by a content management system.
- 3. (Currently amended) A method of storing content in a computing network, comprising:

receiving hints that comprise an indication of anticipated relationships among files; and

using the received hints to allocate storage for the files. The method according to Claim 1, wherein the hints specify one or more files that are likely to be referenced within a temporal proximity of a reference to a selected one of the files.

- 4. (Original) The method according to Claim 3, wherein the selected file is a web page.
- 5. (Original) The method according to Claim 4, wherein the one or more files comprise at least one of (1) one or more embedded objects of the web page and (2) one or more other web pages which are hyperlinked to the web page.
- 6. (Currently amended) A method of storing content in a computing network, comprising:

receiving hints that comprise an indication of anticipated relationships among files; and

In re: Doyle et al.

Serial No.: 10/047,842 Filed: January 15, 2002

Page 3

using the received hints to allocate storage for the files. The method according to Claim 1, wherein the hints are created by a content authoring tool, and wherein the hints specify one or more files that are likely to be referenced within a temporal proximity of a reference to a selected one of the files.

- 7. (Original) The method according to Claim 6, wherein the selected file is a text document.
- 8. (Original) The method according to Claim 7, wherein the one or more files comprise one or more objects which are embedded within or referenced by the text document.
- 9. (Original) The method according to Claim 3, wherein the hints further specify weights which describe a degree of dependency for the relationships.
- 10. (Previously Presented) The method according to Claim 1, wherein receiving hints regarding relationships among files is performed by a file system and using the received hints to allocate storage for the files is performed by a storage system.
- 11. (Original) The method according to Claim 2, wherein the hints are encoded in a markup language notation.
- 12. (Original) The method according to Claim 11, wherein the markup language notation is Extensible Markup Language ("XML") notation.
 - 13. (Previously Presented) The method according to Claim 1, further comprising: receiving a request for one of the files; retrieving the requested file from the allocated storage; and returning the retrieved file.

In re: Doyle et al. Serial No.: 10/047,842 Filed: January 15, 2002

Page 4

14. (Previously Presented) The method according to Claim 1, further comprising: using the received hints to create dependency information which is stored by a receiver of the hints in temporary or permanent storage;

receiving a request for one of the files; and

determining a read request strategy for the requested file by accessing the stored dependency information.

- 15. (Original) The method according to Claim 14, wherein the read request strategy comprises determining selected ones of the files which should be pre-fetched along with a read of the requested file.
- 16. (Previously Presented) The method according to Claim 15, wherein determining selected ones further comprises comparing a dependency weight of the files to a pre-fetch threshold.
- 17. (Original) The method according to Claim 16, wherein the pre-fetch threshold is used to tune the pre-fetch operation.
 - 18. (Previously Presented) The method according to Claim 15, further comprising: retrieving the requested file from the allocated storage; retrieving the selected ones from the allocated storage; returning the retrieved requested file; and caching the retrieved selected ones.
- 19. (Previously Presented) The method according to Claim 18, further comprising caching the retrieved requested file.
- 20. (Previously Presented) A system for storing files in a computing network, comprising

In re: Doyle et al:

Serial No.: 10/047,842 Filed: January 15, 2002

Page 5

means for receiving hints that comprise an indication of anticipated relationships among files, wherein the hints specify one or more files that are likely to be referenced within a temporal proximity of a reference to a selected one of the files; and

means for using the received hints to allocate storage for the files.

21. (Previously Presented) A computer program product for storing files in a computing network, the computer program product embodied on one or more computer-readable media and comprising:

computer readable program code that is configured to receive hints that comprise an indication of anticipated relationships among files, wherein the hints specify one or more files that are likely to be referenced within a temporal proximity of a reference to a selected one of the files; and

computer readable program code that is configured to use the received hints to allocate storage for the files.



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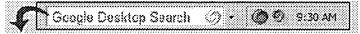
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Best 200 shown 61 Potporri: Characterizing locality, evolution, and life span of accesses in enterprise media server workloads



Ludmila Cherkasova, Minaxi Gupta

May 2002 Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video

Full text available: pdf(303.88 KB)

Additional Information: full citation, abstract, references, citings, index

The main issue we address in this paper is the workload analysis of today's enterprise media servers. This analysis aims to establish a set of properties specific for enterprise media server workloads and to compare them with well known related observations about web server workloads. We propose two new metrics to characterize the dynamics and evolution of the accesses, and the rate of change in the site access pattern, and illustrate them with the analysis of two different enterprise media serv ...

Keywords: CDNs, dynamics, enterprise, media servers, sharing patterns, static locality, temporal locality, workload analysis

62 Applications: YouServ: a web-hosting and content sharing tool for the masses Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani May 2002 Proceedings of the 11th international conference on World Wide Web



Full text available: pdf(238.48 KB)

Additional Information: full citation, abstract, references, citings, index

YouServ is a system that allows its users to pool existing desktop computing resources for high availability web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServpublished content to install special purpose software. Because it requires minimal serverside resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intrane ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

Extraction and Visualization: Webformulate: a web-based visual continual query system



Jennifer Leopold, Meg Heimovics, Tyler Palmer

May 2002 Proceedings of the 11th international conference on World Wide Web

Full text available: pdf(423.60 KB) Additional Information: full citation, abstract, references, index terms

Today there is a plethora of data accessible via the Internet. The Web has greatly simplified the process of searching for, accessing, and sharing information. However, a considerable amount of Internet-distributed data still goes unnoticed and unutilized, particularly in the case of frequently-updated, Internet-distributed databases. In this paper we give an overview of WebFormulate, a Web-based visual continual query system that addresses the problems associated with formulating tempora ...

Keywords: continual query, visual programming language, visual query system

64 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Full text available: pdf(335.47 KB)

Additional Information: full citation, abstract, references, citings, index

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

65 The KScalar simulator

J. C. Moure, Dolores I. Rexachs, Emilio Lugue

March 2002 Journal on Educational Resources in Computing (JERIC), Volume 2 Issue 1

Full text available: pdf(493.35 KB) Additional Information: full citation, abstract, references, index terms

Modern processors increase their performance with complex microarchitectural mechanisms, which makes them more and more difficult to understand and evaluate. KScalar is a graphical simulation tool that facilitates the study of such processors. It allows students to analyze the performance behavior of a wide range of processor microarchitectures: from a very simple in-order, scalar pipeline, to a detailed out-of-order. superscalar pipeline with non-blocking caches, speculative execution, and comp ...

Keywords: Education, pipelined processor simulator

66 GISMO: a Generator of Internet Streaming Media Objects and workloads Shudong Jin, Azer Bestavros

December 2001 ACM SIGMETRICS Performance Evaluation Review, Volume 29 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.10 MB) terms

This paper presents a tool called GISMO (Generator of Internet Streaming Media Objects and workloads). GISMO enables the specification of a number of streaming media access characteristics, including object popularity, temporal correlation of request, seasonal access patterns, user session durations, user inter-activity times, and variable bit-rate (VBR) selfsimilarity and marginal distributions. The embodiment of these characteristics in GISMO enables the generation ...

http://portal.acm.org/results.cfm?query=temporal%20proximity%20authoriz... 10/13/05

.67 Novel ideas: A design space evaluation of grid processor architectures Ramadass Nagarajan, Karthikeyan Sankaralingam, Doug Burger, Stephen W. Keckler December 2001 Proceedings of the 34th annual ACM/IEEE international symposium on **Microarchitecture**

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references, citings Publisher Site

In this paper, we survey the design space of a new class of architectures called Grid Processor Architectures (GPAs). These architectures are designed to scale with technology, allowing faster clock rates than conventional architectures while providing superior instruction-level parallelism on traditional workloads and high performance across a range of application classes. A GPA consists of an array of ALUs, each with limited control, connected by a thin operand network. Programs are executed b ...

68 Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner

November 2001 Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.03 MB)

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

69 Passive measurements: Characterizing large DNS traces using graphs Charles D. Cranor, Emden Gansner, Balachander Krishnamurthy, Oliver Spatscheck November 2001 Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.62 MB) terms ·

The increasing deployment of overlay networks that rely on DNS tricks has led to added interest in examining DNS traffic. In this paper we report on a characterization of DNS traffic gathered over a period of several weeks at Internet Gateway Routers (IGRs) in the AT&T Common Backbone. The characterization is carried out using several novel techniques to identify clients, local DNS servers, and authoritative DNS servers. Our techniques include passive and active measurements, graph-based analysi ...

70 Storage management and caching in PAST, a large-scale, persistent peer-to-peer storage utility

Antony Rowstron, Peter Druschel

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.48 MB) terms

This paper presents and evaluates the storage management and caching in PAST, a largescale peer-to-peer persistent storage utility. PAST is based on a self-organizing, Internetbased overlay network of storage nodes that cooperatively route file queries, store multiple replicas of files, and cache additional copies of popular files. In the PAST system, storage nodes and files are each assigned uniformly distributed identifiers, and replicas of a file are stored at nodes whose identifier matches ...

71 Authoring Support: Designing annotation before it's needed

Frank Nack, Wolfgang Putz

October 2001 Proceedings of the ninth ACM international conference on Multimedia

Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

This paper considers the automated and semi-automated annotation of audiovisual media in a new type of production framework, A4SM (Authoring System for Syntactic, Semantic and Semiotic Modelling). We present the architecture of the framework and outline the underlying XML-Schema based content description structures of A4SM. We then describe tools for a news and demonstrate how video material can be annotated in real time and how this information can not only be used for retrieval but also can be ...

Keywords: MPEG-7, XML Schema, automated annotation, news production, semantic networks

72 Session 5: WWG: a wide-area infrastructure to support groups

Joan Manuel Marquès, Leandro Navarro

September 2001 Proceedings of the 2001 International ACM SIGGROUP Conference on **Supporting Group Work**

Full text available: pdf(535.53 KB) Additional Information: full citation, abstract, references, index terms

Group learning at Internet scale is becoming more frequent in university courses. This complex process requires support by distributed computing learning support infrastructures. This paper describes the design of WWG (World-Wide Groups): a distributed and decentralized infrastructure with the aim of supporting distributed group learning and team work, centered on the distribution of events, so that every participant can be notified and thus be aware of the actions, changes, progress of the group ...

Keywords: CSCL environment, distance cooperative learning, event distribution, virtual groups

73 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín September 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 3

Full text available: pdf(916.04 KB)

Additional Information: full citation, abstract, references, citings, index terms

The problem of searching the elements of a set that are close to a given guery element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

74 Compression of particle data from hierarchical approximate methods



Full text available: pdf(614.22 KB) Additional Information: full citation, abstract, references, index terms

This article presents an analytical and computational framework for the compression of particle data resulting from hierarchical approximate treecodes such as the Barnes--Hut and Fast Multipole Methods. Due to approximations introduced by hierarchical methods, various parameters (such as position, velocity, acceleration, potential) associated with a particle can be bounded by distortion radii. Using this distortion radii, we develop storage schemes that guarantee error bounds while ...

Keywords: Astrophysics, Barnes--Hut, Fast Multipole Method, data compression and analysis, materials simulation, molecular dynamics, particle dynamics

⁷⁵ Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Full text available: pdf(613.63 KB)

1 html(2.78 KB)

Additional Information: full citation, references, citings, index terms

76 On the impact of policing and rate guarantees in DiffServ networks: a video streaming application perspective

Wael Ashmawi, Roch Guerin, Stephen Wolf, Margaret Pinson

August 2001 ACM SIGCOMM Computer Communication Review, Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 31 Issue 4

Full text available: pdf(481.38 KB)

Additional Information: full citation, abstract, references, citings, index terms

Over the past few years, there have been a number of proposals aimed at introducing different levels of service in the Internet. One of the more recent proposals is the Differentiated Services (Diff-Serv) architecture, and in this paper we explore how the policing actions and associated rate guarantees provided by the Expedited Forwarding (EF) translate into perceived benefits for applications that are the presumed users of such enhancements. Specifically, we focus on video streaming application ...

77 sTeam: structuring information in team-distributed knowledge management in cooperative learning environments

August 2001 Journal on Educational Resources in Computing (JERIC)

Additional Information: full citation, abstract, references, index terms, Full text available: pdf(179.03 KB) review

Learning is a socially embedded design process. But most of todays hypermedia systems fail to properly support the design-related and the social aspects of learning. Authoring and Web-publishing systems aim to support the authors design processes. Consequently, the activities of learners are confined to selecting and reading. Based on some fundamental reflections on the role of technology in learning processes, we conclude that top priority must be given to the construction of infrastructur ...

Keywords: cooperative learning, cooperative support, learner-centered approaches, sTeam (structuring information in a team), web-based learning and teaching

78 External memory algorithms and data structures: dealing with massive data Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Full text available: pdf(828.46 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

79 Compiler-based I/O prefetching for out-of-core applications Angela Demke Brown, Todd C. Mowry, Orran Krieger May 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(499.03 KB) terms, review

Current operating systems offer poor performance when a numeric application's working set does not fit in main memory. As a result, programmers who wish to solve "out-of-core" problems efficiently are typically faced with the onerous task of rewriting an application to use explicit I/O operations (e.g., read/write). In this paper, we propose and evaluate a fully automatic technique which liberates the programmer from this task, provides high performance, and requires only minima ...

Keywords: compiler optimization, prefetching, virtual memory

80 Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. Kjeldsberg

April 2001 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 6 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(339.91 KB)

We present a survey of the state-of-the-art techniques used in performing data and memory-related optimizations in embedded systems. The optimizations are targeted directly or indirectly at the memory subsystem, and impact one or more out of three important cost metrics: area, performance, and power dissipation of the resulting implementation. We first examine architecture-independent optimizations in the form of code transoformations. We next cover a broad spectrum of optimizati ...

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, code transformation, data cache, data optimization, high-level synthesis, memory architecture customization, memory power dissipation, register file, size estimation, survey

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Relevance scale 🔲 📟 📟

Map adaptation for users of mobile systems

Dan Chalmers, Morris Sloman, Naranker Dulay

April 2001 Proceedings of the 10th international conference on World Wide Web

Full text available: pdf(298.59 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptive application, quality of service

82 sTeam - Designing an integrative infrastructure for Web-based computer-supported cooperative learning

Thorsten Hampel, Reinhard Keil-Slawik

April 2001 Proceedings of the 10th international conference on World Wide Web

Full text available: pdf(265.67 KB) Additional Information: full citation, references, index terms

Keywords: cooperation support, cooperative learning, learner-centered approaches, sTeam - structuring information in a team, web-based learning and teaching

Enabling full service surrogates using the portable channel representation Micah Beck, Terry Moore, Leif Abrahamsson, Christophe Achouiantz, Patrick Johansson April 2001 Proceedings of the 10th international conference on World Wide Web



Full text available: pdf(282.92 KB) Additional Information: full citation, references, index terms

Keywords: content distribution, dynamic content, mirroring, portability, replication, surrogate, web server

⁸⁴ Visual query and analysis tool of the object-relational GIS framework Zoran Stojanovic, Slobodanka Djordjevic-Kajan, Dragan Stojanovic November 2000 Proceedings of the ninth international conference on Information and



knowledge management

Full text available: pdf(589.86 KB) Additional Information: full citation, references

85 Collaborative augmented reality environments: integrating VR, working materials, and distributed work spaces

Monika Büscher, Michael Christensen, Kaj Grønbæk, Peter Krogh, Preben Mogensen, Dan Shapiro, Peter Ørbæk

September 2000 Proceedings of the third international conference on Collaborative virtual environments

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.03 MB) terms

In this work, we present a new method for displaying stereo scenes, which speeds up the rendering time of complex geometry. We first discuss a scene splitting strategy, allowing us to partition objects to the distant background or the near foreground. Furthermore, wededuce a computation rule for positioning a cutting plane in the scene.

Keywords: 3D workspace, CSCW, roomware, virtual office/project room, virtual reality, working material

Chimera: hypermedia for heterogeneous software development enviroments Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead July 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(864.32 KB)

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

87 An improved method for creating dynamic web forms using APL Steven J. Halasz

June 2000 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL-Berlin-2000 conference, Volume 30 Issue 4

Full text available: pdf(624.07 KB) Additional Information: full citation, abstract, index terms

The subject of this paper is "active" or "dynamic" web forms handled by Dyalog APL running on a web server. With "active" web forms, the HTML which specifies form controls is generated dynamically by a server program, in contrast to "static" web forms in which the HTML is fixed and does not vary from one page hit to the next. Also, I will be discussing only "thin client" approaches which minimize the amount of code which runs on the client machine. The method shown, which I call a "standard temp ...

88 FOHM: a fundamental open hypertext model for investigating interoperability between hypertext domains

Dave E. Millard, Luc Moreau, Hugh C. Davis, Siegfried Reich May 2000 Proceedings of the eleventh ACM on Hypertext and hypermedia Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

Keywords: component-based open hypermedia system (CB-OHS), fundamental open hypermedia model (FOHM), hypertext domains, interoperability, open hypermedia protocol (OHP)

89 Hypermedia in the virtual project room - toward open 3D spatial hypermedia Preben Mogensen, Kai Grønbæk May 2000 Proceedings of the eleventh ACM on Hypertext and hypermedia



Full text available: 📆 pdf(741.98 KB) Additional Information: full citation, references, citings, index terms

Keywords: 3D workspace, CSCW, collaborative virtual environments, open hypermedia, spatial hypermedia

90 Designing and mining multi-terabyte astronomy archives: the Sloan Digital Sky Survey Alexander S. Szalay, Peter Z. Kunszt, Ani Thakar, Jim Gray, Don Slutz, Robert J. Brunner May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data, Volume 29 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(429.09 KB)

The next-generation astronomy digital archives will cover most of the sky at fine resolution in many wavelengths, from X-rays, through ultraviolet, optical, and infrared. The archives will be stored at diverse geographical locations. One of the first of these projects, the Sloan Digital Sky Survey (SDSS) is creating a 5-wavelength catalog over 10,000 square degrees of the sky (see http://www.sdss.org/). The 200 million objects in the multiterabyte database will have mostly numerical attribut ...

Keywords: Internet, archive, astronomy, data analysis, data mining, database, scalable

Extending document management systems with user-specific active properties Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton



April 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 2

Full text available: pdf(166.43 KB)

Additional Information: full citation, abstract, references, citings, index terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

⁹² A spatial hierarchical compression method for 3D streaming animation

Toshiki Hijiri, Kazuhiro Nishitani, Tim Cornish, Toshiya Naka, Shigeo Asahara February 2000 Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)

Full text available: pdf(209.08 KB) Additional Information: full citation, abstract, references, index terms

When distributing 3D contents real-time over a network with a narrow bandwidth such as a telephone line, methods for streaming and data compression can be considered indispensable. In previous work, we made possible the real-time streaming of 3D animation data on a network with a narrow bandwidth such as a telephone line by partitioning motion data for humanoid characters (data obtained by motion capture, for example full frame data at 30 frames/sec) into packets and then carrying ...

Keywords: VRML, animation, compression, hierarchy, humanoid character, streaming

93 The LHAM log-structured history data access method

Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum

February 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 3-4

Full text available: pdf(494.76 KB) Additional Information: full citation, abstract, index terms

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying access method must support different forms of "time-travel" queries, the migration of old record versions onto inexpensive archive media, and high insertion and update rates. This paper presents an access method for transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

94 Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles, Volume 33 Issue 5

Full text available: pdf(1.61 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

95 CHIME: a metadata-based distributed software development environment Stephen E. Dossick, Gail E. Kaiser

October 1999 ACM SIGSOFT Software Engineering Notes, Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering, Volume 24 Issue 6

Full text available: pdf(940.46 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We introduce CHIME, the Columbia Hypermedia IMmersion Environment, a metadata-

based information environment, and describe its potential applications for internet and intranet-based distributed software development. CHIME derives many of its concepts from Multi-User Domains (MUDs), placing users in a semi-automatically generated 3D virtual world representing the software system. Users interact with project artifacts by "walking around" the virtual world, where they potentially en ...

⁹⁶ Technical communications as knowledge management: evolution of a profession Patti Anklam



October 1999 Proceedings of the 17th annual international conference on Computer documentation

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, citings, index

The tasks, talents, and technical capabilities of systems communications professionals have evolved over the past 30 years as the industry itself has grown and transformed the world we live in through several generations of systems. The next generation of systems will be focused on supporting the knowledge worker more effectively and efficiently by focusing on knowledge-enabling business processes. The skills, practices, and understanding of the community of systems documentation profession ...

Keywords: knowledge management, technical communications

97 Using structural characteristics for autonomous operation

Carlos Baquero, Francisco Moura

October 1999 ACM SIGOPS Operating Systems Review, Volume 33 Issue 4

Full text available: Ppdf(636.87 KB) Additional Information: full citation, abstract, index terms

The majority of current mobile computing systems operate either in conjunction with a central network by some form of weak connectivity or tend to operate in total isolation and perform sporadic synchronization with a backup or a central network. These configurations miss an additional and very useful pattern of operation --- mobile to mobile interaction. Recent mobile devices have the capacity for direct communication among them, but this option is essentially neglected by the application softw ...

Keywords: conflict resolution, mobile computing, replication

⁹⁸ Tools and approaches for developing data-intensive Web applications: a survey Piero Fraternali



September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(524,80 KB) terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

Comparison of access methods for time-evolving data Betty Salzberg, Vassilis J. Tsotras



June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available: pdf(529.53 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

100 TouchCounters: designing interactive electronic labels for physical containers Paul Yarin, Hiroshi Ishii



May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit

Full text available: pdf(1.42 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We present TouchCounters, an integrated system of electronic modules, physical storage containers, and shelving surfaces for the support of collaborative physical work. Through physical sensors and local displays, TouchCounters record and display usage history information upon physical storage containers, thus allowing access to this information during the performance of real-world tasks. A distributed communications network allows this data to be exchanged with a server, such that us ...

Keywords: distributed sensing, tangible interfaces, ubiquitous computing, visualization

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101 Modeling mobile IP in mobile UNITY

Peter J. McCann, Gruia-Catalin Roman

April 1999 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 2

Full text available: pdf(344.70 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

With recent advances in wireless communication technology, mobile computing is an increasingly important area of research. A mobile system is one where independently executing components may migrate through some space during the course of the computation, and where the pattern of connectivity among the components changes as they move in and out of proximity. Mobile UNITY is a notation and proof logic for specifying and reasoning about mobile systems. In this article it is argued that Mobile ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

102 Active database systems

Norman W. Paton, Oscar Díaz

March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1

Full text available: pdf(2.68 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems in recent years, and many different proposals have been made and applications suggested. This high level of activity has not yielded a single agreed-upon standard approach to the integration of active functionality with conventional databa ...

Keywords: active databases, events, object-oriented databases, relational databases

103 Spatial and temporal content-based access to hypervideo databases Haitao Jiang, Ahmed K. Elmagarmid

December 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 4



Full text available: pdf(241.17 KB) Additional Information: full citation, abstract, citings, index terms

Providing content-based video query, retrieval and browsing is the most important goal of a video database management system (VDBMS). Video data is unique not only in terms of its spatial and temporal characteristics, but also in the semantic associations manifested by the entities present in the video. This paper introduces a novel video data model called Logical Hypervideo Data Model. In addition to multilevel video abstractions, the model is capable of representing video entities that ...

Keywords: Ccontent-based query, Hot object, Hypervideo, Spatial and temporal constraint, Video database

104 Data mountain: using spatial memory for document management

George Robertson, Mary Czerwinski, Kevin Larson, Daniel C. Robbins, David Thiel, Maarten van Dantzich

November 1998 Proceedings of the 11th annual ACM symposium on User interface software and technology

Full text available: pdf(1.78 MB) Additional Information: full citation, references, citings, index terms

Keywords: 3D user interfaces, desktop VR, document mangement, information visualization, spatial cognition, spatial memory

105 Reasoning about implicit invocation

D. Garlan, S. Jha, D. Notkin, J. Dingel

 November 1998 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th **ACM SIGSOFT international symposium on Foundations of software** engineering, Volume 23 Issue 6

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index terms

Implicit invocation [SN92, GN91] has become an important architectural style for largescale system design and evolution. This paper addresses the lack of specification and verification formalisms for such systems. Based on standard notions from process algebra and trace semantics, we define a formal computational model for implicit invocation. A verification methodology is presented that supports linear time temporal logic and compositional reasoning. First, the entire system is partioned into ...

106 History-based access control for mobile code

Guy Edjlali, Anurag Acharya, Vipin Chaudhary

November 1998 Proceedings of the 5th ACM conference on Computer and communications security

Full text available: pdf(1.33 MB)

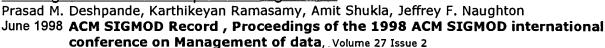
Additional Information: full citation, references, citings, index terms

107 An integrated information system on the Web for catchment management Kenny Taylor, Mark Cameron, Jason Haines

November 1998 Proceedings of the 6th ACM international symposium on Advances in geographic information systems

Full text available: pdf(730.11 KB) Additional Information: full citation, references, index terms

108 Caching multidimensional queries using chunks



Full text available: pdf(1.55 MB)

Additional Information: full citation, abstract, references, citings, index

Caching has been proposed (and implemented) by OLAP systems in order to reduce response times for multidimensional queries. Previous work on such caching has considered table level caching and query level caching. Table level caching is more suitable for static schemes. On the other hand, query level caching can be used in dynamic schemes, but is too coarse for "large" query results. Query level caching has the further drawback for small query results in that it is only effectly ...

109 MPEG-4: an object-based multimedia coding standard supporting mobile applications Atul Puri, Alexandros Eleftheriadis



June 1998 Mobile Networks and Applications, Volume 3 Issue 1

Full text available: pdf(747.80 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

110 Version models for software configuration management



Reidar Conradi, Bernhard Westfechtel

June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Full text available: pdf(483.54 KB)

Additional Information: full citation, abstract, references, citings, index terms

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions. variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

111 Supporting the restructuring of data abstractions through manipulation of a program visualization



Robert W. Bowdidge, William G. Griswold

April 1998 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 7 Issue 2

Full text available: pdf(1.57 MB)

Additional Information: full citation, abstract, references, citings, index terms

With a meaning-preserving restructuring tool, a software engineer can change a program's structure to ease future modifications. However, deciding how to restructure the program requires a global understanding of the program's structure, which cannot be derived easily by directly inspecting the source code. We describe a manipulable program visualization the star diagram—that supports the restructuring task of encapsulating a global data structure. The star diag ...

Keywords: meaning-preserving restructuring, semi-automated restructuring, software visualization, star diagram, tool-supported restructuring

112 Special issue on word sense disambiguation: Using corpus statistics and WordNet relations for sense identification

Claudia Leacock, George A. Miller, Martin Chodorow March 1998 Computational Linguistics, Volume 24 Issue 1

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

Corpus-based approaches to word sense identification have flexibility and generality but suffer from a knowledge acquisition bottleneck. We show how knowledge-based techniques can be used to open the bottleneck by automatically locating training corpora. We describe a statistical classifier that combines topical context with local cues to identify a word sense. The classifier is used to disambiguate a noun, a verb, and an adjective. A knowledge base in the form of WordNet's lexical relations is ...

113 Remote I/O: fast access to distant storage

Ian Foster, David Kohr, Rakesh Krishnaiyer, Jace Mogill

November 1997 Proceedings of the fifth workshop on I/O in parallel and distributed systems

Full text available: pdf(1.51 MB)

Additional Information: full citation, references, citings, index terms

114 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

115 An object-oriented SGML/HyTime compliant multimedia database management



M. Tamer Özsu, Paul Iglinski, Duane Szafron, Sherine El-Medani, Manuela Junghanns November 1997 Proceedings of the fifth ACM international conference on Multimedia

Full text available: pdf(1.77 MB)

Additional Information: full citation, references, citings, index terms

116 A framework for generating adaptable hypermedia documents

Lloyd Rutledge, Jacco van Ossenbruggen, Lynda Hardman, Dick C. A. Bulterman November 1997 Proceedings of the fifth ACM international conference on Multimedia

Full text available: pdf(1.50 MB)

Additional Information: full citation, references, citings, index terms

Keywords: DSSSL, HyTime, SGML, hypermedia, open hypermedia

October 1997 ACM SIGCUE Outlook, Volume 25 Issue 4

117 Computer-mediated communication in collaborative educational settings: report of the ITICSE '97 working group on CMC in collaborative educational settings Ursula Wolz, Jacob Palme, Penny Anderson, Zhi Chen, James Dunne, Göran Karlsson, Atika Laribi, Sirkku Männikkö, Robert Spielvogel, Henry Walker

Full text available: pdf(2.14 MB) Additional Information: full citation, abstract, references, index terms

In educational environments that stress collaboration, the use of computer-mediated communication (CMC) tools can be a source of support as well as a challenge. This paper begins by considering general educational and economic goals and how CMC can be helpful in attaining these goals. A taxonomy of tools for communication and collaboration in education is described. Many sides of the issue are considered, including the roles of teachers and students, problems that can arise and potential solutio ...

¹¹⁸ Pick-and-drop: a direct manipulation technique for multiple computer environments Jun Rekimoto

October 1997 Proceedings of the 10th annual ACM symposium on User interface software and technology

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

Keywords: computer augmented environments, direct manipulation, drag-and-drop, graphical user interfaces, input devices, multi-computer user interfaces, pen interfaces, stylus interfaces, ubiquitous computing

119 Managing a digital library of legislation

Timothy Arnold-Moore, Philip Anderson, Ron Sacks-Davis July 1997 Proceedings of the second ACM international conference on Digital libraries

Full text available: pdf(1.66 MB) Additional Information: full citation, references, index terms

120 TeleNotes: managing lightweight interactions in the desktop Steve Whittaker, Jerry Swanson, Jakov Kucan, Candy Sidner June 1997 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 4 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.01 MB)

Communication theories and technology have tended to focus on extended, formal meetings and have neglected a prevalent and vital form of workplace communication namely, lightweight communication. Unlike formal, extended meetings, lightweight interaction is brief, informal, unplanned, and intermittent. We analyze naturalistic data from a study of work-place communication and derive five design criteria for lightweight interaction systems. These criteria require that systems for lightwe ...

Keywords: audio, awareness, computer-media spaces, conversation management, impromptu communication, informal communication, interpersonal communications, lightweight interaction, mediated communication, remote collaboration, task management, video

Results (page 6): temporal proximity authorizing tool reference cont... Page 6 of 6

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121 Computer-mediated communication in collaborative educational settings (report of the ITiCSE '97 working group on CMC in collaborative educational settings)

Ursula Wolz, Jacob Palme, Penny Anderson, Zhi Chen, James Dunne, Göran Karlsson, Atika Laribi, Sirkku Männikkö, Robert Spielvogel, Henry Walker

June 1997 The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings

Full text available: 📆 pdf(109.30 KB) Additional Information: full citation, references, citings, index terms

122 Trace-driven memory simulation: a survey

Richard A. Uhlig, Trevor N. Mudge

June 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 2

Full text available: pdf(636.11 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

¹²³ File server scaling with network-attached secure disks

Garth A. Gibson, David F. Nagle, Khalil Amiri, Fay W. Chang, Eugene M. Feinberg, Howard Gobioff, Chen Lee, Berend Ozceri, Erik Riedel, David Rochberg, Jim Zelenka

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 25 Issue 1

Full text available: pdf(1.77 MB)

Additional Information: full citation, abstract, references, citings, index

By providing direct data transfer between storage and client, network-attached storage

devices have the potential to improve scalability for existing distributed file systems (by removing the server as a bottleneck) and bandwidth for new parallel and distributed file systems (through network striping and more efficient data paths). Together, these advantages influence a large enough fraction of the storage market to make commodity network-attached storage feasible. Realizing the technology's ful ...

124 Access control for large collections

H. M. Gladney

April 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 2

Full text available: pdf(482.88 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

125 <u>SpeechSkimmer: a system for interactively skimming recorded speech</u> Barry Arons

March 1997 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 4 Issue 1

Full text available: pdf(1.03 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>re</u>view

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. This article describes techniques for structuring, filtering, and presenting recorded speech, allowing a user to navigate and interactively find information in the audio domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

126 Hyperform: a hypermedia system development environment

Uffe K. Wiil, John J. Leggett

January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 1

Full text available: pdf(362.84 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Development of hypermedia systems is a complex matter. The current trend toward open, extensible, and distributed multiuser hypermedia systems adds additional complexity to the development process. As a means of reducing this complexity, there has been an increasing interest in hyperbase management systems that allow hypermedia system developers to abstract from the intricacies and complexity of the hyperbase layer and fully attend to application and user interface issues. Design, developme ...

Keywords: advanced hypermedia system architecture, extensible hyperbase management system, object-oriented extension language

127 Accurate and practical profile-driven compilation using the profile buffer

Thomas M. Conte, Kishore N. Menezes, Mary Ann Hirsch

December 1996 Proceedings of the 29th annual ACM/IEEE international symposium on Microarchitecture

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references, citings, index terms

Profiling is a technique of gathering program statistics in order to aid program optimization. In particular, it is an essential component of compiler optimization for the extraction of instruction-level parallelism. Code instrumentation has been the most popular method of profiling. However, real-time, interactive, and transaction processing applications suffer from the high execution-time overhead imposed by software instrumentation. This paper suggests the use of hardware dedicated to the tas ...

Keywords: profiling, instruction-level parallelism, compiler optimization, profile buffer, superblock scheduling

128 Joint actions based authorization schemes

Vijay Varadharajan, Phillip Allen

July 1996 ACM SIGOPS Operating Systems Review, Volume 30 Issue 3

Full text available: pdf(784.95 KB) Additional Information: full citation, abstract, citings, index terms

Authorization policy requirements in commercial applications are often richer compared to military applications in terms of the types of privileges required, and more complex in terms of both the nature and degree of interactions between participating objects. Delegation and joint action mechanisms allow a more flexible and dynamic form of access control, thereby enabling the representation of sophisticated authorization policies. This paper explores some issues that need to be addressed when de ...

129 The C-ODA project: online access to electronic journals

Peter Kirstein, Goli Montasser-Kohsari

June 1996 Communications of the ACM, Volume 39 Issue 6

Full text available: pdf(1.24 MB) Additional Information: full citation, references, index terms, review

130 An empirical study of a wide-area distributed file system

Mirjana Spasojevic, M. Satyanarayanan

May 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 2

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The evolution of the Andrew File System (AFS) into a wide-area distributed file system has encouraged collaboration and information dissemination on a much broader scale than ever before. We examine AFS as a provider of wide-area file services to over 100 organizations around the world. We discuss usage characteristics of AFS derived from empirical measurements of the system. Our observations indicate that AFS provides robust and efficient data access in its current configuration, thus conf ...

Keywords: Andrew, Internet, World Wide Web, scalability, usage, wide area

131 HyperCafe: narrative and aesthetic properties of hypervideo

Nitin Sawhney, David Balcom, Ian Smith

March 1996 Proceedings of the the seventh ACM conference on Hypertext

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

Keywords: aesthetics, digital video, multi-threaded narratives, navigation, temporal links

132 <u>Database research: achievements and opportunities into the 1st century</u>
Avi Silberschatz, Mike Stonebraker, Jeff Ullman

March 1996 ACM SIGMOD Record, Volume 25 Issue 1

Full text available: pdf(1.11 MB)

Additional Information: full citation, citings

133 <u>Knowledge-based document retrieval in office environments: the Kabiria system</u>
Augusto Celentano, Maria Grazia Fugini, Silvano Pozzi
July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3



Full text available: pdf(2.14 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of d ...

Keywords: browser, class, hypertext, instance, knowledge base, link, object orientation, user interface

134 <u>Special issue on persistent object systems: Tigukat: a uniform behavioral objectbase management system</u>



M. Tamer Özsu, Randal Peters, Duane Szafron, Boman Irani, Anna Lipka, Adriana Muñoz July 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 3

Full text available: pdf(2.78 MB) Additional Information: full citation, abstract, references, citings

We describe the TIGUKAT objectbase management system, which is under development at the Laboratory for Database Systems Research at the University of Alberta. TIGUKAT has a novel object model, whose identifying characteristics include a purely behavioral semantics and a uniform approach to objects. Everything in the system, including types, classes, collections, behaviors, and functions, as well as meta-information, is a first-class object with well-defined behavior. In this way, the model abstr ...

Keywords: database management, objectbase management, persistent storage system, reflective system

135 Adaptive block rearrangement

Sedat Akyürek, Kenneth Salem

May 1995 ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 2

Full text available: pdf(2.27 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

An adaptive technique for reducing disk seek times is described. The technique copies frequently referenced blocks from their original locations to reserved space near the

middle of the disk. Reference frequencies need not be known in advance. Instead, they are estimated by monitoring the stream of arriving requests. Trace-driven simulations show that seek times can be cut substantially by copying only a small number of blocks using this technique. The technique has been implemented by modi ...

Keywords: data clustering, data replication, seek optimization

136 A survey of current object-oriented databases

Mansour Zand, Val Collins, Dale Caviness

February 1995 ACM SIGMIS Database, Volume 26 Issue 1

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, citings, index terms

Object-oriented concepts form a good basis for the data models required for nextgeneration database applications such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object-oriented databases are available commercially or are being developed by industry or academic research facilities. This paper attempts to compare some of these products using fourteen criteria. The selected criteria are major factors required for the successful design of an object-oriented database ...

Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

137 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(6.32 MB) terms, review

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for highperformance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

138 Untangling the World-Wide Web

Liam Relihan, Tony Cahill, Michael G. Hinchey

October 1994 Proceedings of the 12th annual international conference on Systems documentation: technical communications at the great divide

Additional Information: full citation, references, index terms Full text available: pdf(1.04 MB)

139 Special issue on spatial database systems: An introduction to spatial database systems

Ralf Hartmut Güting

October 1994 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 3 Issue 4

Full text available: pdf(2.50 MB) Additional Information: full citation, abstract, references, citings

We propose a definition of a spatial database system as a database system that offers

spatial data types in its data model and query language, and supports spatial data types in its implementation, providing at least spatial indexing and spatial join methods. Spatial database systems offer the underlying database technology for geographic information systems and other applications. We survey data modeling, querying, data structures and algorithms, and system architecture for such systems. The em ...

140 A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi September 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 3

Full text available: pdf(3.81 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

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141 Interaction design at the Utrecht School of the Arts

Lon Barfield, Willie van Burgsteden, Ruud Lanfermeijer, Bert Mulder, Jurriënne Ossewold, Dick Rijken, Philippe Wegner

July 1994 ACM SIGCHI Bulletin, Volume 26 Issue 3

Full text available: pdf(5.38 MB)

Additional Information: full citation, abstract, citings, index terms

The "Hogeschool voor de Kunsten Utrecht" (Utrecht School of the Arts, Utrecht, The Netherlands) offers a four-year curriculum in interaction design (roughly equivalent to an MA) and a one year master of arts degree in interactive multimedia. The material here presents our approach to interaction design as a discipline and the curriculum that embodies this approach. It features a collection of thoughts and snapshots-- we regard it as work in progress. Interaction design is a new field. It is grow ...

142 SIGMOD challenges paper: database issues in telecommunications network management

Ilsoo Ahn

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data, Volume 23 Issue 2 .

Full text available: pdf(822.72 KB)

Additional Information: full citation, abstract, references, citings, index terms

Various types of computer systems are used behind the scenes in many parts of the telecommunications network to ensure its efficient and trouble-free operation. These systems are large, complex, and expensive real-time computer systems that are mission critical, and contains a database engine as a critical component. These systems share some of common database issues with conventional applications, but they also exhibit rather unique characteristics that present challenging database issues. ...

143 Data modeling of time-based media

Simon Gibbs, Christian Breiteneder, Dennis Tsichritzis

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data, Volume 23 Issue 2

Full text available: pdf(1.32 MB)

Additional Information: full citation, abstract, references, citings, index terms

Many aspects of time-based media—complex data encoding, compression, "quality factors," timing—appear problematic from a data modeling standpoint. This paper proposes timed streams as the basic abstraction for modeling time-based media. Several

media-independent structuring mechanisms are introduced and a data model is presented which, rather than leaving the interpretation of multimedia data to applications, addresses the complex organization and re ...

144 Shoring up persistent applications

Michael J. Carey, David J. DeWitt, Michael J. Franklin, Nancy E. Hall, Mark L. McAuliffe, Jeffrey F. Naughton, Daniel T. Schuh, Marvin H. Solomon, C. K. Tan, Odysseas G. Tsatalos, Seth J. White, Michael J. Zwilling

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data, Volume 23 Issue 2

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

SHORE (Scalable Heterogeneous Object REpository) is a persistent object system under development at the University of Wisconsin. SHORE represents a merger of objectoriented database and file system technologies. In this paper we give the goals and motivation for SHORE, and describe how SHORE provides features of both technologies. We also describe some novel aspects of the SHORE architecture, including a symmetric peer-to-peer server architecture, server customization through an extensible ...

145 Oracle media server: providing consumer based interactive access to multimedia data

Andrew Laursen, Jeffrey Olkin, Mark Porter May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international

conference on Management of data, Volume 23 Issue 2 Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, citings, index terms

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS professional. With the introduction of broadband communications to the home and better than 100-to-1 compression techniques, a new form of network-based computing is emerging. Structured data is still important, but the bulk of data b ...

146 Does licensing require new access control techniques?

Ralf C. Hauser

December 1993 Proceedings of the 1st ACM conference on Computer and communications security

Full text available: 📆 pdf(804.20 KB) Additional Information: full citation, abstract, references, index terms

Licensing is a topic of increasing importance for software publishers and users. More and more, the magnitude of financial transfers between these two partners are determined by some electronic licensing service being part of the system on which the licensed software is running. In order to ease the use and management of such licensing schemes and to enable economic software usage in enterprise-wide computer systems through flexible and fair billing structures, various organizations are wor ...

147 A cryptographic file system for UNIX

Matt Blaze

December 1993 Proceedings of the 1st ACM conference on Computer and communications security

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(955.62 KB) terms

Although cryptographic techniques are playing an increasingly important role in modern computing system security, user-level tools for encrypting file data are cumbersome and suffer from a number of inherent vulnerabilities. The Cryptographic File System (CFS) pushes encryption services into the file system itself. CFS supports secure storage at the system level through a standard Unix file system interface to encrypted files. Users associate a cryptographic key with the directories ...

148 The architecture and implementation of a distributed hypermedia storage system Douglas E. Shackelford, John B. Smith, F. Donelson Smith December 1993 Proceedings of the fifth ACM conference on Hypertext



Full text available: pdf(1.01 MB)

Additional Information: full citation, references, citings, index terms

Keywords: computer-supported cooperative work (CSCW), distributed data, distributed file systems, hypertext, performance, scalability

149 An object-oriented database for the display measurement and analysis system Yihong Qian, Edward A. Fox, Willard W. Farley December 1993 Proceedings of the second international conference on Information



and knowledge management Full text available: pdf(823.60 KB) Additional Information: full citation, references, index terms

150 Query evaluation techniques for large databases

Goetz Graefe

June 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

151 Empirical performance evaluation of concurrency and coherency control protocols for database sharing systems



Erhard Rahm

June 1993 ACM Transactions on Database Systems (TODS), Volume 18 Issue 2

Full text available: pdf(3.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database Sharing (DB-sharing) refers to a general approach for building a distributed high performance transaction system. The nodes of a DB-sharing system are locally coupled via a high-speed interconnect and share a common database at the disk level. This is also known as a "shared disk" approach. We compare database sharing with the database partitioning (shared nothing) approach and discuss the functional DBMS components that require new and coordinated solutions for DB-shar ...

Keywords: coherency control, concurrency control, database partitioning, database

sharing, performance analysis, shared disk, shared nothing, trace-driven simulation

152 Database research at AT&T Bell Laboratories

H. V. Jagadish

March 1993 ACM SIGMOD Record, Volume 22 Issue 1

Full text available: pdf(616.01 KB) Additional Information: full citation, abstract, index terms

Bell Laboratories is the Research and Development arm of AT&T. There is today tremendous support for database research in Bell Labs and in AT&T. This is expected to continue since database technology is recognized as being central not just to Teradata, NCR, and AT&T's computing business but to its core communication business as well. What you see described below is a survey of the current state of a young and growing research effort in the database area. You should expect to see ...

153 The expandable split window paradigm for exploiting fine-grain parallelsim Manoj Franklin, Gurindar S. Sohi

April 1992 ACM SIGARCH Computer Architecture News, Proceedings of the 19th annual international symposium on Computer architecture, Volume 20 Issue 2

Full text available: pdf(1.25 MB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a new processing paradigm, called the Expandable Split Window (ESW) paradigm, for exploiting fine-grain parallelism. This paradigm considers a window of instructions (possibly having dependencies) as a single unit, and exploits fine-grain parallelism by overlapping the execution of multiple windows. The basic idea is to connect multiple sequential processors, in a decoupled and decentralized manner, to achieve overall multiple issue. This processing paradigm shares a number of pr ...

154 Addressing the requirements of a dynamic corporate textual information base

Peter G. Anick, Rex A. Flynn, David R. Hanssen

September 1991 Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.01 MB)

Additional Information: full citation, references, citings, index terms

¹⁵⁵ An annotated bibliography of computer supported cooperative work

Saul Greenberg

July 1991 ACM SIGCHI Bulletin, Volume 23 Issue 3

Full text available: mpdf(4.27 MB)

Additional Information: full citation, abstract, references, citings, index terms

Computer-supported cooperative work (CSCW) is a new multi-disciplinary field with roots in many disciplines. Due to the area's youth and diversity, few specialized books or journals are available, and articles are scattered amongst diverse journals, proceedings and technical reports. Building a CSCW reference library is particularly demanding, for it is difficult for the new researcher to discover relevant documents. To aid this task, this article compiles, lists and annotates some of the curren ...

156 Toward a unified framework for version modeling in engineering databases

Randy H. Katz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

Full text available: pdf(3.14 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

157 <u>Database research at Bellcore</u>

September 1990 ACM SIGMOD Record, Volume 19 Issue 3

Full text available: pdf(722.69 KB) Additional Information: full citation

158 Research directions in object-oriented database systems

Won Kim

April 1990 Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Full text available: pdf(2.02 MB)

Additional Information: full citation, abstract, references, citings, index terms

The set of object-oriented concepts found in object-oriented programming languages forms a good basis for a data model for post-relational database systems which will extend the domain of database applications beyond conventional business data processing. However, despite the high level of research and development activities during the past several years, there is no standard object-oriented data model, and criticisms and concerns about the field still remain. In this paper, I will first pr ...

159 Design of the Mneme persistent object store

J. Eliot B. Moss

April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Full text available: pdf(3.22 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent object store, a fundamental component of the project, discussing its design and initial prototype. Mneme stores objects

160 Distributed form management

Heikki Hämmäinen, Eero Eloranta, Jari Alasuvanto

January 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 1

Full text available: pdf(2.24 MB)

Additional Information: full citation, abstract, references, citings, index terms

An open architecture for distributed form management is described. The model employs object-orientation in describing organizational units as well as individual users as entities with uniform external interfaces. Each entity is represented by an autonomous user agent which operates on local and migrating forms. The form concept encapsulates data, layout, and rules into a unified object which is the basic unit of presentation, processing, storage, and commun ...

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Human-computer interface development: concepts and systems for its management H. Rex Hartson, Deborah Hix

Relevance scale 🔲 📟 📟 📟

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Full text available: pdf(7.97 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

162 A relational approach to monitoring complex systems

Richard Snodgrass

May 1988 ACM Transactions on Computer Systems (TOCS), Volume 6 Issue 2

Full text available: pdf(3.42 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>, <u>review</u>

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...

163 OTM: specifying office tasks

F. H. Lochovsky, J. S. Hogg, A. O. Mendelzon, S. P. Weiser

April 1988 ACM SIGOIS Bulletin, Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems, Volume 9 Issue 2-3

Full text available: pdf(988.62 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

While there are many difficulties in computerizing office tasks, two of the major ones are a lack of appropriate end-user facilities for specifying office tasks and inadequate system-level support for managing office tasks. We are investigating these two issues within the Office Task Manager (OTM) project at the University of Toronto. To address the user-level aspects of specifying office tasks, we believe that a programming-by-example approach to

office task specification holds much promis ...

164 801 storage: architecture and programming

Albert Chang, Mark F. Mergen

February 1988 ACM Transactions on Computer Systems (TOCS), Volume 6 Issue 1

Full text available: pdf(1.87 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Based on novel architecture, the 801 minicomputer project has developed a low-level storage manager that can significantly simplify storage programming in subsystems and applications. The storage manager embodies three ideas: (1) large virtual storage, to contain all temporary data and permanent files for the active programs; (2) the innovation of database storage, which has implicit properties of access serializability and atomic update, similar to those o ...

165 Query processing in a multimedia document system

Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 ACM Transactions on Information Systems (TOIS), Volume 6 Issue 1

Full text available: pdf(2.94 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

166 The architecture of static hypertexts

Tim Oren

November 1987 Proceeding of the ACM conference on Hypertext

Full text available: pdf(1.57 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper's purpose is to describe how the hypertext technique can make CD-ROM (and other static storage media) a more comfortable environment for human use. I begin by considering implementation issues for hypertext on CD-ROM and surveying currently available products. I suggest desirable goals for the use of hypertext on the static CD medium, and propose that their achievement will follow from a correct choice of conventions of use and construction of the hypertext database. Such ...

167 Office-by-example: an integrated office system and database manager

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 ACM Transactions on Information Systems (TOIS), Volume 5 Issue 4

Full text available: pdf(2.86 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

168 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King

September 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 3

Full text available: pdf(5.42 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple recordbased format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

169 UIO: a uniform I/O system interface for distributed systems

David R. Cheriton

January 1987 ACM Transactions on Computer Systems (TOCS), Volume 5 Issue 1

Full text available: pdf(3.20 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A uniform I/O interface allows programs to be written relatively independently of specific I/O services and yet work with a wide variety of the I/O services available in a distributed environment. Ideally, the interface provides this uniform access without excessive complexity in the interface or loss of performance. However, a uniform interface does not arise from careful design of individual system interfaces alone; it requires explicit definition. In this paper, the UIO (unifo ...

170 Session VI - collaboration research: A language/action perspective on the design of cooperative work

Terry Winograd

December 1986 Proceedings of the 1986 ACM conference on Computer-supported cooperative work

Full text available: mpdf(1.56 MB) Additional Information: full citation, abstract, references, citings

In designing computer-based systems, we work within a perspective that shapes the design questions that will be asked and the kinds of solutions that are sought. This paper introduces a perspective based on language as action, and explores its consequences for practical system design. The language/action perspective is contrasted to a number of other currently prominent perspectives, and is illustrated with an extended example based on studies of nursing work in a hospital ward. We show how it I ...

171 IOTA: a full text information retrieval system

Y. Chiaramella, B. Defude, M. F. Bruandet, D. Kerkouba

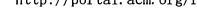
September 1986 Proceedings of the 9th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(747.94 KB) Additional Information: full citation, abstract, references, citings

IOTA is a prototype of an Information Retrieval System which can manage a corpus made of highly structured, full text documents. The first version presented here has intelligent capabilities related to heuristic pattern matching procedures for processing natural language queries, which involve an automatically built thesaurus. The paper emphazises the overall principles of query processing and gives hints about the underlying techniques used while constructing the thesaurus and automaticall ...

172 Rooms: the use of multiple virtual workspaces to reduce space contention in a window-based graphical user interface

D. Austin Henderson, Stuart Card



July 1986 ACM Transactions on Graphics (TOG), Volume 5 Issue 3

Full text available: pdf(4.58 MB)

Additional Information: full citation, abstract, references, citings, index terms

A key constraint on the effectiveness of window-based human-computer interfaces is that the display screen is too small for many applications. This results in "window thrashing," in which the user must expend considerable effort to keep desired windows visible. Rooms is a window manager that overcomes small screen size by exploiting the statistics of window access, dividing the user's workspace into a suite of virtual workspaces with transitions among them. Mech ...

173 Communications design for Co-oP: a group decision support system

Tung X. Bui, Matthias Jarke

July 1986 ACM Transactions on Information Systems (TOIS), Volume 4 Issue 2

Full text available: pdf(1.67 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Decision Support Systems (DSSs), computer-based systems intended to assist managers in preparing and analyzing decisions, have been single-user systems for most of the past decade. Only recently has DSS research begun to study the implications of the fact that most complex managerial decisions involve multiple decision makers and analysts. A number of tools for facilitating group decisions have been proposed under the label Group Decision Support Systems (GDSSs). One of the most ...

A simulation program for anlysis of distributed data base processing concepts

Paul J. Fortier, Patrick Turner

March 1986 Proceedings of the 19th annual symposium on Simulation

Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

Keywords: distributed data bases, performance evaluation, query processing/optimization, simulation modelling

175 Reference model for DBMS standardization

March 1986 ACM SIGMOD Record, Volume 15 Issue 1

Full text available: pdf(2.62 MB) Additional Information: full citation, abstract, citings, index terms

This report proposes a Reference Model (RM) for database management system (DBMS) standardization. A Reference Model is a conceptual framework whose purpose is to divide standardization work into manageable pieces and to show at a general level how these pieces are related with each other. The proposed RM comprises a Data Mapping Control System (DMCS) that retrieves and stores application data, application schemas, and data dictionary schemas. This DMCS is bounded by two interfaces: the Data Lan ...

176 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 ACM SIGART Bulletin, Issue 93

Full text available: pdf(5.13 MB) Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

177 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

178 File servers for network-based distributed systems

Liba Svobodova

December 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 4

Full text available: pdf(4.23 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

179 Experiences with a micro lab network

Kathy Heerema, Kit Larsen, Sara Wyant

November 1984 Proceedings of the 12th annual ACM SIGUCCS conference on User services

Full text available: pdf(535.35 KB) Additional Information: full citation, references, index terms

180 An architecture for object management in OIS

Matts Ahlsen, Anders Bjornerstedt, Stefan Britts, Christer Hulten, Lars Soderlund August 1984 ACM Transactions on Information Systems (TOIS), Volume 2 Issue 3

Full text available: pdf(1.52 MB)

Additional Information: full citation, references, citings, index terms

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181 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue SI

Full text available: pdf(16.07 MB) Additional Information: full citation

window

182 <u>Database techniques and models for the office environment: SOS: a conceptual model for office information systems</u>



G. Bracchi, B. Pernici

January 1984 ACM SIGMIS Database, Volume 15 Issue 2

Full text available: pdf(704.05 KB) Additional Information: full citation, abstract, references

Analysis and design of office information systems require the development of conceptual models for representing the different aspects of office work in an integrated way, independently of implementation details. This paper discusses the requirements for office conceptual models, showing their main distinguishing features with respect to conventional information systems models. On the basis of these requirements, the design criteria and the main features of the Semantic Office System model (SOS) ...

183 Special section: Special issue on Al and Database research

Jonathan J. King

October 1983 ACM SIGART Bulletin, Issue 86

Full text available: pdf(3.84 MB) Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

184 Shared resource matrix methodology: an approach to identifying storage and timing channels



Richard A. Kemmerer

August 1983 ACM Transactions on Computer Systems (TOCS), Volume 1 Issue 3

Full text available: pdf(1.27 MB) Additional Information: full citation, references, citings, index terms

Keywords: confinement, covert channels, flow analysis, protection, storage channels, timing channels, validation

185 Formal Models for Computer Security

Carl E. Landwehr

September 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 3

Full text available: pdf(2.98 MB)

Additional Information: full citation, references, citings, index terms

186 Conversion technology, an assessment

James P. Fry

July 1981 ACM SIGMIS Database, ACM SIGMOD Record, Volume 12,13, 12 Issue 4,1, 2

Full text available: pdf(2.36 MB) Additional Information: full citation, references

187 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

188 Social Analyses of Computing: Theoretical Perspectives in Recent Empirical

<u>Research</u>

Rob Kling

January 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 1

Full text available: pdf(3.98 MB) Additional Information: full citation, references, citings, index terms

189 Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

190 Database Reorganization—Principles and Practice

Gary H. Sockut, Robert P. Goldberg

December 1979 ACM Computing Surveys (CSUR), Volume 11 Issue 4

Full text available: pdf(1.89 MB) Additional Information: full citation, references, citings, index terms

191

Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 ACM SIGGRAPH Computer Graphics, Volume 13 Issue 3

Full text available: pdf(15.01 MB) Additional Information: full citation, references, citings

192 Beyond programming languages

Terry Winograd

July 1979 Communications of the ACM, Volume 22 Issue 7

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings

As computer technology matures, our growing ability to create large systems is leading to basic changes in the nature of programming. Current programming language concepts will not be adequate for building and maintaining systems of the complexity called for by the tasks we attempt. Just as high level languages enabled the programmer to escape from the intricacies of a machine's order code, higher level programming systems can provide the means to understand and manipulate complex systems a ...

Keywords: programming, programming languages, programming systems, systems development

193 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 ACM SIGNUM Newsletter, Volume 14 Issue 1

Full text available: pdf(5.02 MB) Additional Information: full citation

194 The British Computer Society Data Dictionary Systems Working Party report The Data Dictionary Systems Working Party

December 1977 ACM SIGMOD Record, ACM SIGMIS Database, Volume 9, 9 Issue 4, 2

Full text available: pdf(2.23 MB) Additional Information: full citation, references

195 Data base directions: the next steps

John L. Berg

November 1976 ACM SIGMOD Record, ACM SIGMIS Database, Volume 8, 8 Issue 4, 2

Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

196 CODASYL Data-Base Management Systems

Robert W. Taylor, Randall L. Frank

January 1976 ACM Computing Surveys (CSUR), Volume 8 Issue 1

Full text available: pdf(2.82 MB) Additional Information: full citation, references, citings, index terms

197 Third Generation Computer Systems

Peter J. Denning

December 1971 ACM Computing Surveys (CSUR), Volume 3 Issue 4

Full text available: pdf(3.52 MB)

Additional Information: full citation, abstract, references, citings, index terms

The common features of third generation operating systems are surveyed from a general view, with emphasis on the common abstractions that constitute at least the basis for a "theory" of operating systems. Properties of specific systems are not discussed except where examples are useful. The technical aspects of issues and concepts are stressed, the nontechnical aspects mentioned only briefly. A perfunctory knowledge of third generation systems is presumed.

198 Automatic parsing for content analysis

Frederick J. Damerau

June 1970 Communications of the ACM, Volume 13 Issue 6

Full text available: pdf(4.07 MB) Additional Information: full citation, abstract, references, citings

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

199 Computers and Privacy: A Survey

Lance J. Hoffman

June 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 2

Full text available: pdf(1.74 MB) Additional Information: full citation, references, citings, index terms

200 Geo-coding—an application in a local governmental information system

Alan C. Richter

January 1968 Proceedings of the 1968 23rd ACM national conference

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, index terms

Across the nation, local governments of suburban communities surrounding major central cities are facing several basic problems: (1) a tremendous explosion in the development of land that is creating chaos in the record keeping and handling systems of these local governmental entities. This is primarily due to the sheer increase in volume; (2) the increasing population of these suburban areas is becoming more affluent, its tax rates are increasing rapidly, and is expecting more and better g ...

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